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(54) Use of CRF antagonists and related compositions for treating depression and modifying the circadian rhytm

- (57) A corticotropin releasing factor (CRF) antagonist is administered to treat a condition selected from the group consisting of:
- disorders that can be treated by altering circadian rhythm; and
- d) depression, further wherein a second compound for treating depression is administered, the second compound for treating depression having an onset of action that is delayed with respect to that of the CRF antagonist.

Description

Field of the Invention

[0001] This invention relates to the use of CRF antagonists in the treatment of certain conditions, and related compositions.

Background Of The Invention

CRF antagonists are disclosed in U.S. Patents 4,605,642 (Issued August 12, 1986) and 5,063,245 (issued November 5, 1991). They are also disclosed in International patent publications WO 95/33750 (published December 14, 1995); WO 95/34563 (published December 21, 1995); WO 94/13676 (published June 23, 1994); WO 94/13677 (published June 23, 1994); WO 95/33727 (published December 14, 1995); WO 98/05661 (published February 12, 1998); WO 98/08847 (published March 5, 1998); and WO 98/08846 (published March 5, 1998) and European patent publications EP 778277 (published June 11, 1997) and EP 773023 (published May 14, 1997). CRF antagonists are also disclosed in the following patent publications: EP 576350; WO 95/10506 (published April 20, 1995); WO 96/35689 (published November 14, 1996); WO 96/39400 (published December 12, 1996); WO 97/00868 (published January 9, 1997); WO 97/14684 (published April 24, 1997); WO 97/29109 (published August 14, 1997); WO 97/29110 (published August 14, 1997); WO 97/35580 (published October 2, 1997); WO 97/35846 (published October 2, 1997); WO 97/44038 (published November 27, 1997); WO 98/03510 (published January 29, 1998); WO 98/08821 (published March 5, 1998); WO 98/11075 (published March 19, 1998); WO 98/15543 (published April 16, 1998); WO 98/21200 (published May 22, 1998); WO 98/27066 (published June 25, 1998); WO 98/29397 (published July 9, 1998); WO 98/29413 (published July 9, 1998); WO 98/42699 (published October 1, 1998); WO 98/35967 (published August 20, 1998); WO 98/45295 (published October 15, 1998); WO 98/47874 (published October 29, 1998); WO 98/47903 (published October 29, 1998); WO 99/01454 (published January 14, 1999); WO 99/01439 (published January 14, 1999); WO 99/10350 (published March 4, 1999); WO 99/12908 (published March 18, 1999); WO 99/00373 (published January 7, 1999); and WO 99/38868 (published August 5, 1999).

The importance of CRF antagonists is set out in the literature, e.g., P. Black, Scientific American SCIENCE & MEDICINE, 1995, p. 16-25; T. Lovenberg, et al., Current Pharmaceutical Design, 1995, 1: 305-316; and United States Patent 5,063,245. An outline of the activities possessed by CRF antagonists is found in M. J. Owens et al., 1991, Pharm. Rev., 43:425-473. CRF antagonists are described in the art as being effective in the treatment of stress-related illnesses, mood disorders such as depression, major depressive disorder, single episode depression, recurrent depression, child abuse induced depression, postpartum depression, dysthemia, bipolar disorders, and cyclothymia; chronic fatigue syndrome; eating disorders such as anorexia and bulimia nervosa; generalized anxiety disorder; panic disorder; phobias; obsessive-compulsive disorder; post-traumatic stress disorder; pain perception such as fibromyalgia; headache; gastrointestinal diseases; hemorrhagic stress; ulcers; stress-induced psychotic episodes; fever; diarrhea; postoperative ileus; colonic hypersensitivity; irritable bowel syndrome; Crohn's disease; spastic colon; inflammatory disorders such as rheumatoid arthritis and osteoarthritis; pain; asthma; psoriasis; allergies; osteoporosis; premature birth; hypertension, congestive heart failure; sleep disorders; neurodegenerative diseases such as Alzheimer's disease, senile dementia of the Alzheimer's type, multiinfarct dementia, Parkinson's disease, and Huntington's disease; head trauma; ischemic neuronal damage; excitotoxic neuronal damage; epilepsy; stroke; spinal cord trauma; psychosocial dwarfism; euthyroid sick syndrome; syndrome of inappropriate antidiarrhetic hormone; obesity; chemical dependencies and addictions; drug and alcohol withdrawal symptoms; infertility; cancer; muscular spasms; urinary incontinence; hypoglycemia and immune dysfunctions including stress induced immune dysfunctions, immune suppression and human immunodeficiency virus infections; and stress-induced infections in humans and animals.

Summary Of The Invention

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[0004] The present invention relates to a method of treating a condition comprising administering a corticotropin releasing factor (CRF) antagonist in an amount effective to treat the condition, the condition being selected from the group consisting of:

- a) disorders that can be treated by altering circadian rhythm; and
- b) depression, further wherein a second compound for treating depression is administered, the second compound for treating depression having an onset of action that is delayed with respect to that of the CRF antagonist.

[0005] In another aspect, the present invention relates to a method for treating or preventing a cardiovascular disease that involves administering a CRF antagonist in combination with a non-CRF antagonist compound for treating the

disease. The invention also relates to treatment of migraine or non-migraine headache by administration of a CRF antagonist in combination with a non-CRF antagonist compound that treats such condition and to treatment of emesis using a CRF antagonist in combination with a non-CRF antagonist compound for treating emesis.

5 Detailed Description of the Invention

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[0006] All patents, patent publications, and literature references cited herein are hereby incorporated by reference. [0007] In one aspect, the present invention provides for treatment of disorders that can be treated by altering circadian rhythm, e.g., abnormal circadian rhythm, by administration of a CRF antagonist. Abnormal circadian rhythm treated according to the invention can be associated with several types of disorders, including, without limitation, time zone change syndrome, seasonal affective disorder, irregular sleep-wake pattern, delayed sleep phase syndrome, advanced sleep phase syndrome, non-24 hour sleep wake disorder, light-induced clock resetting, REM sleep disorder, hypersomnia, parasomnia, narcolepsy, nocturnal enuresis, restless legs syndrome, sleep apnea, dysthymia, and abnormal circadian rhythm associated with chronic administration and withdrawal of antidepressant agents.

[0008] If desired, a second compound, e.g., a non-CRF antagonist that is useful for treating sleep disorder, can be administered before, with, or after, administration of the CRF antagonist. Any such second compound useful for treating sleep disorder may be employed, including but not limited to tachykinin antagonists, melatoninergic agonists, such as melatonin, GABA brain receptor agonists, serotonin receptor (such as 5HT1b, 5HT2c, 5HT7) antagonists, inverse agonists, agonists and other compounds. Specific compounds for treatment of sleep disorder include melatonin, carpipramine, and doxylamine. These and other compounds are described, for example, in United States Patents 5,908,932; 5,902,813; 5,883,094; 5,874,450; 5,849,781; 5,856,529; and 4,956,362.

[0009] It is intended that reference to particular compounds herein be interpreted to mean that the pharmaceutically acceptable salts and prodrugs of those compounds, may also be employed. Such reference is also intended to be interpreted that modified CRF antagonists may also be employed. For example, the invention encompasses use of a CRF antagonist linked to a non-CRF antagonist to form a prodrug which hydrolyzes upon administration to form active components.

[0010] The invention also encompasses treatment of depression with a CRF antagonist and with a second compound having delayed action for treating depression. According to this aspect of the invention, the CRF antagonist initiates treatment of the depression with a quick-acting effect, which treatment is supplemented by the delayed effect of the second compound.

[0011] Compounds for treating depression that have a delayed effect include, without limitation, compounds that are selective serotonin reuptake inhibitors (SSRIs), tricyclic antidepressants, norepinephrine reuptake inhibitors, noradrenaline reuptake inhibitors, lithium, $\alpha 2$ -adrenoreceptor agonists, $5HT_{1A}$ inhibitors, and monoamine oxidase type A inhibitors. Examples include bupropion, sertraline, fluoxetine, trazodone, citalopram, fluoxamine, paroxetine, venlafaxine, roboxetine, imipramine, amitriptyline, trimipramine, doxepin, desipramine, nortriptyline, protriptyline, amoxapine, clomipramine, maprotiline, brofaromine, milnacipran, and buspirone. It understood by those skilled in this art that compounds administered for treatment of depression may have other beneficial effects, such as ameliorating sleep disturbance or sexual dysfunction. Compounds having a delayed effect for treating depression also include the combination of an SSRI and $5HT_2$ antagonist (such as risperidone) administered, for example, to patients who do not respond to SSRI therapy alone. Administration of these delayed-action compounds for treating depression is carried out using well-known dosages and formulations.

[0012] Any CRF antagonist can be used to practice the invention, including those that are described in U.S. Patents 4,605,642 and 5,063,245; International patent publications WO 95/33750; WO 95/34563; WO 94/13676; WO94/13677; WO 95/33727; WO 98/05661; WO 98/08847; and WO 98/08846; and European patent publications EP 778277; and EP 773023. They also include those of the following patent publications: EP 576350; WO 95/10506; WO 96/35689; WO 96/39400; WO 97/0868; WO 97/14684; WO 97/29109; WO 97/29110; WO 97/35580; WO 97/35846; WO 97/44038; WO 98/03510; WO 98/08821; WO 98/11075; WO 98/15543; WO 98/21200; WO 98/27066; WO 98/29397; WO 98/29413; WO 98/42699; WO 98/35967; WO 98/45295; WO 98/47874, WO 98/47903, WO 99/01454, WO99/01439, WO99/10350; WO99/12908; WO99/00373, and WO 99/38868. As noted above, the texts of all of these publications are incorporated by reference herein in their entireties.

[0013] Following are listed particular examples of CRF antagonists that may be used in practicing the invention. It is understood that in the generic formulae employed below, the variables employed, e.g., "A", "B", "R₁", "R₂", etc. have the meanings attributed to them only in the particular Roman numeral section in which they are found. Thus, the meaning attributed, for example, to "R¹" is different for the structures in section I and the structures of the other sections.

<u>I.</u> For example, the CRF antagonist may be of the following formula, described in WO 94/13677:

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and the pharmaceutically acceptable acid addition salts thereof, wherein

A is NR_1R_2 , $CR_1R_2R_{11}$, or $C(=CR_1R_{12})R_2$, $NHCR_1R_2R_{11}$, $OCR_1R_2R_{11}$, $SCR_1R_2R_{11}$, $NHNR_1R_2$, $CR_2R_{11}NHR_1$, $CR_2R_{11}OR_1$, $CR_2R_{11}SR_1$ or $C(O)R_2$;

 R_1 is hydrogen, or $C_1\text{-}C_6$ alkyl which may be substituted by one or two substituents R_6 independently selected from the group consisting of hydroxy, fluoro, chloro, bromo, iodo, $C_1\text{-}C_6$ alkoxy, $O\text{-}C(O)\text{-}(C_1\text{-}C_6$ alkyl), $O\text{-}C(O)\text{-}N(C_1\text{-}C_4$ alkyl); amino, $NH(C_1\text{-}C_4$ alkyl), $S(C_1\text{-}C_6$ alkyl), $OC(O)NH(C_1\text{-}C_4$ alkyl), $N(C_1\text{-}C_2$ alkyl), $OC(O)(C_1\text{-}C_4$ alkyl), $OC(O)(C_1\text$

 R^2 is C_1 - C_{12} alkyl, aryl or $(C_1$ - C_{10} alkylene)aryl wherein said aryl is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinolyl, pyrimidyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, benzisothiazolyl, thiazolyl, isoxazolyl, benzisoxazolyl, benzimidazolyl, triazolyl, pyrazolyl, pyrrolyl, indolyl, azaindolyl, oxazolyl, or benzoxazolyl; 3- to 8-membered cycloalkyl or $(C_1$ - C_6 alkylene) cycloalkyl, wherein said cycloalkyl may have one or two of O, S or N-Z, wherein Z is hydrogen, substituted, independently, for one or two carbons of said cycloalkyl, C_1 - C_4 alkyl, benzyl or C_1 - C_4 alkanoyl, wherein R^2 may be substituted independently by from one to three of chloro, fluoro, or C_1 - C_4 alkyl, or one of hydroxy, bromo, iodo, C_1 - C_6 alkoxy, $OC(O)(C_1$ - C_6 alkyl), O-C- $N(C_1$ - C_4 alkyl)(C_1 - C_2 alkyl), $S(C_1$ - C_6 alkyl), S

 NR_1R_2 or $CR_1R_2R_{11}$ may form a 4- to 8-membered ring optionally having one or two double bonds or one or two of O, S or N-Z wherein Z is hydrogen, C_1 - C_4 alkyl, benzyl, or C_1 - C_4 alkanoyl;

 R_3 is hydrogen, C_1 - C_6 alkyl, fluoro, chloro, bromo, iodo, hydroxy, amino, $O(C_1$ - C_6 alkyl), $NH(C_1$ - C_6 alkyl), $N(C_1$ - C_4 alkyl), C_1 - C_4 alkyl), C_1 - C_4 alkyl), C_1 - C_4 alkyl), or $SO_2(C_1$ - C_4 alkyl), wherein said C_1 - C_4 alkyl and C_1 - C_6 alkyl may have one or two double or triple bonds and may be substituted by from 1 to 3 R_7 substituents independently selected from the group consisting of hydroxy, amino, C_1 - C_3 alkoxy, dimethylamino, diethylamino, methylamino, ethylamino, $NHC(O)CH_3$, fluoro, chloro or C_1 - C_3 thioalkyl;

 R_4 is hydrogen, $\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl, fluoro, chloro, bromo, iodo, $\mathsf{C}_1\text{-}\mathsf{C}_6$ alkoxy, amino, $\mathsf{NH}(\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl), $\mathsf{N}(\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl), $\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl), $\mathsf{SO}_n(\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl), wherein n is 0, 1 or 2, cyano, hydroxy, carboxy, or amido, wherein said $\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyls may be substituted by one to three of hydroxy, amino, carboxy, amido, $\mathsf{NHC}(\mathsf{O})(\mathsf{C}_1\text{-}\mathsf{C}_4$ alkyl), $\mathsf{NH}(\mathsf{C}_1\text{-}\mathsf{C}_4$ alkyl), $\mathsf{N}(\mathsf{C}_1\text{-}\mathsf{C}_4$ alkyl), $\mathsf{N}(\mathsf{C}_1\text{-}\mathsf{C}_4$ alkyl), $\mathsf{C}_1\text{-}\mathsf{C}_3$ alkoxy, $\mathsf{C}_1\text{-}\mathsf{C}_3$ thioalkyl, fluoro, bromo, chloro, iodo, cyano or nitro;

 R_5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinolyl, pyrimidyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, benzoisothiazolyl, thiazolyl, isoxazolyl, benzisoxazolyl, benzimidazolyl, triazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl benzoxazolyl, oxazolyl, pyrrolidinyl, thiazolidinyl, piperazinyl, piperidinyl, or tetrazolyl, wherein each one of the above groups may be substituted independently by from one to three of fluoro, chloro, bromo, formyl, C_1 - C_6 alkyl, C_1 - C_6 alkoxy or trifluoromethyl, or one of hydroxy, iodo, cyano, nitro, amino, cyclopropyl, NH(C_1 - C_4 alkyl), N(C_1 - C_4 alkyl)(C_1 - C_4 alkyl), CO(C_1 - C_4 alkyl), SO₂NH(C_1 - C_4 alkyl), SO₂NH(C_1 - C_4 alkyl), SO₂NH(C_1 - C_6 alkyl), wherein said C_1 - C_6 alkyl and C_1 - C_6 alkyl may have one double or triple bond and may be substituted by one or two of fluoro, chloro, hydroxy, amino, methylamino, dimethylamino or acetyl; with the proviso that R_5 is not unsubstituted phenyl;

 R_{11} is hydrogen, hydroxy, fluoro, chloro, COO(C_1 - C_2 alkyl), cyano, or CO(C_1 - C_2 alkyl); and R_{12} is hydrogen or C_1 - C_4 alkyl;

(a) A is not straight chain C1-C12 alkyl;

- (b) when R_3 is hydrogen, A is benzyl or phenethyl, and R_4 is fluoro, chloro, bromo or iodo, then R_5 is not 5'-deoxy-ribofuranosyl or 5'-amino-5'-deoxy-ribofuranosyl; and
- (c) when R⁵ is phenyl, said phenyl is substituted by two or three substituents.
- II. The invention also relates to use of a CRF antagonist of the following formula, described in WO 94/1367

$$R_3$$
 R_4
 R_5

6: and the acid addition salts thereof, wherein

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B is XA wherein X is $(CH_2)_n$ in which n is 0, 1 or 2, NH, O, S, $N(C_1-C_4 \text{ alkyl})$; A is NR_1R_2 , $CR_1R_2R_{11}$, or $C(=CR_2R_{12})R_1$;

 R_1 is hydrogen, or $C_1\text{-}C_6$ alkyl which may be substituted by one or two substituents R_7 independently selected from the group consisting of hydroxy, fluoro, chloro, bromo, iodo, $C_1\text{-}C_8$ alkoxy, $O\text{-}C(=O)\text{-}(C_1\text{-}C_6$ alkyl), $O\text{-}C(=O)\text{-}N(C_1\text{-}C_4$ alkyl), $O\text{-}C(=O)\text{-}N(C_1\text{-}C_4$ alkyl), $O\text{-}C(=O)\text{-}N(C_1\text{-}C_4$ alkyl), $O\text{-}C(=O)\text{-}N(C_1\text{-}C_4$ alkyl), $O\text{-}C(=O)\text{-}C_1\text{-}C_4$ alkyl), $O\text{-}C(O\text{-}C_1\text{-}C_4)$ alkyl), $O\text{-}C(O\text{-}C_1\text{-}C_4)$ alkyl), $O\text{-}C(O\text{-}C_1\text{-}C_4)$ alkyl), $O\text{-}C(O\text{-}C_1\text{-}C_4)$ alkyl), $O\text{-}C(O\text{-}C_1\text{-}C_2)$ alkyl), and said $O\text{-}C(O\text{-}C_1\text{-}C_2)$ alkyl may contain one or two double or triple bonds;

 R_2 is C_1 - C_{12} alkyl, aryl or $(C_1$ - C_{10} alkylene)aryl wherein said aryl is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, benzisothiazolyl, thiazolyl, isoxazolyl, benzisoxazolyl, benzimidazolyl, triazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl, or benzoxazolyl; 3-to 8-membered cycloalkyl or $(C_1$ - C_6 alkylene) cycloalkyl, wherein said cycloalkyl may contain one or two of O, S or N-Z wherein Z is hydrogen, C_1 - C_4 alkyl, benzyl or C_1 - C_4 alkanoyl, wherein R_2 may be substituted independently by from one to three of chloro, fluoro, or C_1 - C_4 alkyl, or one of hydroxy, bromo, iodo, C_1 - C_6 alkoxy, O-C(=O)- $(C_1$ - C_6 alkyl), O-O-O(O1-O2 alkyl), O1-O3 alkyl), O4. O5 alkyl), O6 alkyl), O7 alkyl), O8 alkyl), O8 alkyl), O9 alkyl) may contain one to three double or triple bonds; or

when A is NR_1R_2 or $CR_1R_2R_{11}$, then R_1 and R_2 taken together with the atom to which they are attached may form a saturated 4- to 8-membered optionally containing one or two double bonds or one or two of O, S or N-Z wherein Z is hydrogen, C_1 - C_4 alkyl, or C_1 - C_4 alkanoyl;

 R_3 is hydrogen, C_1 - C_6 alkyl, fluoro, chloro, bromo, iodo, hydroxy, amino, $O(C_1$ - C_6 alkyl), $NH(C_1$ - C_6 alkyl), $SO(C_1$ - C_4 alkyl), or $SO_2(C_1$ - C_4 alkyl), wherein said $SO(C_1$ - $SO(C_1$

 R_4 and R_6 are each independently hydrogen, $C_1\text{-}C_6$ alkyl, fluoro, chloro, bromo, iodo, $C_1\text{-}C_6$ alkoxy, amino, NH($C_1\text{-}C_6$ alkyl), N($C_1\text{-}C_6$ alkyl)($C_1\text{-}C_2$ alkyl), SOn($C_1\text{-}C_6$ alkyl), wherein n is 0, 1 or 2, cyano, hydroxy, carboxy, or amido, wherein said $C_1\text{-}C_6$ alkyls may be substituted by one to three of hydroxy, amino, carboxy, amido, NHC(=O)($C_1\text{-}C_4$ alkyl), NH($C_1\text{-}C_4$ alkyl), N($C_1\text{-}C_4$ alkyl), C(=O)O($C_1\text{-}C_4$ alkyl), $C_1\text{-}C_3$ alkoxy, $C_1\text{-}C_3$ thioalkyl, fluoro, bromo, chloro, iodo, cyano or nitro;

 R_5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidyl, imidazolyl, furanyl, benzoturanyl, benzothiazolyl, isothiazolyl, benzisothiazolyl, thiazolyl, isoxazolyl, benzisoxazolyl, benzimidazolyl, triazolyl, pyrrolyl, indolyl, azaindolyl, benzoxazolyl, oxazolyl, pyrrolidinyl, thiazolidinyl, morpholinyl, piperidinyl, piperazinyl, tetrazolyl, or 3- to 8-membered cycloalkyl or 9- to 12-membered bicycloalkyl, optionally containing one to three of O, S or N-Z wherein Z is hydrogen, C_1 - C_4 alkyl, C_1 - C_4 alkanoyl, phenyl or phenyl-methyl, wherein each one of the above groups may be substituted independently by from one to four of fluoro,

chloro, C_1 - C_6 alkyl, C_1 - C_6 alkoxy or trifluoromethyl, or one of bromo, iodo, cyano, nitro, amino, NH(C_1 - C_4 alkyl), N(C_1 - C_4)(C_1 - C_4 alkyl), CO(C_1 - C_4 alkyl), CO(C_1 - C_4 alkyl), SO₂NH(C_1 - C_4 alkyl), SO₂NH(C_1 - C_4 alkyl), SO₂NH₂, NHSO₂(C_1 - C_4 alkyl), S(C_1 - C_6 alkyl), SO₂(C_1 - C_6 alkyl), wherein said C_1 - C_4 alkyl and C_1 - C_6 alkyl may be substituted by one or two of fluoro, chloro, hydroxy, amino, methylamino, dimethylamino or acetyl; with the proviso that R_5 is not unsubstituted phenyl;

 R_{11} is hydrogen, hydroxy, fluoro, chloro, COO(C_1 - C_2 alkyl), cyano, or CO(C_1 - C_2 alkyl); and R_{12} is hydrogen or C_1 - C_4 alkyl; with the proviso that (1) when R_5 is 4-bromophenyl, R_3 is hydrogen, and R_4 and R_6 are methyl, then B is not methylamino or ethyl, and (2) when R_5 is 4-bromophenyl, and R_3 , R_4 and R_6 are methyl, then B is not 2-hydroxyethylamino.

III. It is also possible to employ a CRF antagonist that has a structure selected from the group shown below, and pharmaceutically acceptable salts and esters thereof, as described in WO 95/33750:

wherein

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A is CR7 or N;

B is NR_1R_2 , $CR_1R_2R_{11}$, $C(=CR_2R_{12})R_1$, $NHCHR_1R_2$, $OCHR_1R_2$, $SCHR_1R_2$, CHR_2OR_{12} , CHR_2SR_{12} , $C(S)R_2$ or $C(O)R_2$;

Y is CH or N;

Z is NH, O, S, N (C_1 - C_2 alkyl), or $CR_{13}R_{14}$, wherein R_{13} and R_{14} are each independently hydrogen, trifluoromethyl, or C_1 - C_4 alkyl, or one of R_{13} and R_{14} may be cyano, chloro, bromo, iodo, fluoro, hydroxy, O(C_1 - C_2 alkyl), amino, NH(C_1 - C_2 alkyl), or $CR_{13}R_{14}$ may be C=O or cyclopropyl;

 R_1 is $C_1\text{-}C_6$ alkyl which may be substituted by one or two substituents R_8 independently selected from the group consisting of hydroxy, fluoro, chloro, bromo, iodo, $C_1\text{-}C_4$ alkoxy, $O\text{-}CO\text{-}(C_1\text{-}C_4$ alkyl), $O\text{-}CO\text{-}NH(C_1\text{-}C_4$ alkyl), $O\text{-}CO\text{-}N(C_1\text{-}C_4$ alkyl), $O\text{-}N(C_1\text{-}C_4$ alkyl), and said $O\text{-}N(C_1\text{-}C_4$ alkyl may contain one double or triple bond;

 R_2 is C_1 - C_{12} alkyl, aryl or $(C_1$ - C_4 alkylene)aryl wherein said aryl is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, benzisoxazolyl, benzisoxazolyl, indolyl, or benzoxazolyl; 3- to 8-membered cycloalkyl or $(C_1$ - C_6 alkylene)cycloalkyl, wherein said cycloalkyl may contain one or two of O, S or N- R_9 wherein R_9 is hydrogen, or C_1 - C_4 alkyl, wherein the above defined R_2 may be substituted independently by from one to three of chloro, fluoro, or C_1 - C_4 alkyl, or one of bromo, iodo, C_1 - C_6 alkoy, O-CO- $(C_1$ - C_6 alkyl), O-CO- $(C_1$ - C_6 alkyl), CN, NO₂, SO($(C_1$ - $(C_4$ alkyl), or SO₂($(C_1$ - $(C_4$ alkyl)), and wherein said $(C_1$ - $(C_1$ - $(C_4$ alkyl)) or $(C_1$ - $(C_4$ alkyl)) alkylene may contain one double or triple bond; or

 NR_1R_2 or $CR_1R_2R_{11}$ may form a saturated 5- to 8-membered carbocyclic ring which may contain one or two double bonds or one or two of O or S;

 R_3 is methyl, ethyl, fluoro, chloro, bromo, iodo, cyano, methoxy, OCF₃, methylthio, methylsulfonyl, CH₂OH or CH₂OCH₃;

 R_4 is hydrogen, C_1 - C_4 alkyl, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, amino, nitro, NH(C_1 - C_4 alkyl), N(C_1 - C_4 alkyl)(C_1 - C_2 alkyl), SO_n(C_1 - C_4 alkyl), wherein n is 0, 1 or 2, cyano, hydroxy, CO(C_1 - C_4 alkyl), CHO, or COO(C_1 - C_4 alkyl), wherein said C_1 - C_4 alkyl may contain one or two double or triple bonds and may be substituted by one or two of hydroxy, amino, carboxy, NHCOCH₃, NH(C_1 - C_2 alkyl), N(C_1 - C_2 alkyl)₂, COO(C_1 - C_4 alkyl), CO(C_1 - C_4 alkyl), C1- C_3 alkoxy, C1- C_3 thioalkyl, fluoro, chloro, cyano or nitro;

R₅ is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidyl, furanyl, benzofuranyl, benzothiazolyl, or indolyl, wherein each one of the above groups R₅ is substituted independently by from one to three of fluoro, chloro, C₁-C₆ alkyl, or C₁-C₆ alkoxy, or one of hydroxy, iodo, bromo, formyl, cyano, nitro, trifluoromethyl, amino, NH(C₁-C₄ alkyl), N(C₁-C₆)(C₁-C₂ alkyl), COOH, COO(C₁-C₄ alkyl), CO(C₁-C₄ alkyl),

 $SO_2NH(C_1-C_4 \text{ alkyl})$, $SO_2N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, SO_2NH_2 , $NHSO_2(C_1-C_4 \text{ alkyl})$, $S(C_1-C_6 \text{ alkyl})$, or $SO_2(C_1-C_6 \text{ alkyl})$, wherein said $C_1-C_4 \text{ alkyl}$ and $C_1-C_6 \text{ alkyl}$ may be substituted by one or two of fluoro, hydroxy, amino, methylamino, dimethylamino or acetyl;

 R_6 is hydrogen, or C_1 - C_6 alkyl, wherein said C_1 - C_6 alkyl may be substituted by one hydroxy, methoxy, ethoxy or fluoro:

 R_7 is hydrogen, C_1 - C_4 alkyl, fluoro, chloro, bromo, iodo, cyano, hydroxy, $O(C_1$ - C_4 alkyl), $C(O)(C_1$ - C_4 alkyl), or $C(O)O(C_1$ - C_4 alkyl), wherein the C_1 - C_4 alkyl groups may be substituted with one hydroxy, chloro or bromo, or one to three fluoro;

R₁₁ is hydrogen, hydroxy, fluoro, or methoxy;

R₁₂ is hydrogen or C₁-C₄ alkyl; and

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R₁₆ and R₁₇ are each independently hydrogen, hydroxy, methyl, ethyl, methoxy, or ethoxy, except that they are not both methoxy or ethoxy, and CR₄R₆ and CR₁₆R₁₇ each independently may be C=O.

IV. It also possible to employ a CRF antagonist of the following formula, disclosed in WO 95/34563:

 R_7 R_3 R_3 R_3 R_3

and the pharmaceutically acceptable acid addition salts thereof, wherein

A is N or -CR6;

B is $-NR_1R_2$, $-CR_1R_2R_{11}$, $-C(=CR_2R_{12})R_1$, $-NHCHR_1R_2$, $-OCHR_1R_2$, $-SCHR_1R_2$, $-CHR_2OR_{12}$, $-CHR_2SR_{12}$, $-C(S)R_1$ or $-C(O)R_1$;

 R_1 is $C_1\text{-}C_6$ alkyl which may optionally be substituted with one or two substituents independently selected from the group consisting of hydroxy, fluoro, chloro, bromo, iodo, $C_1\text{-}C_4$ alkoxy, -O-CO-($C_1\text{-}C_4$ alkyl), -O-CO-NH($C_1\text{-}C_4$ alkyl), -O-CO-N($C_1\text{-}C_4$ alkyl)($C_1\text{-}C_2$ alkyl), -NH($C_1\text{-}C_4$ alkyl), -N($C_1\text{-}C_2$ alkyl)($C_1\text{-}C_4$ alkyl), -S($C_1\text{-}C_4$ alkyl), -CON($C_1\text{-}C_4$ alkyl), and wherein any of the foregoing $C_1\text{-}C_4$ alkyl and $C_1\text{-}C_6$ alkyl groups may optionally contain one carbon-carbon double or triple bond;

 R_2 is $C_1 \cdot C_{12}$ alkyl, aryl, - $(C_1 \cdot C_4$ alkylene)aryl wherein said aryl is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, benzisothiazolyl, thiazolyl, isoxazolyl, benzisoxazolyl, or benzoxazolyl, or 3- to 8-membered cycloalkyl or - $(C_1 \cdot C_6$ alkylene)cycloalkyl, wherein one or two of the ring carbons of said cycloalkyl having at least 4 ring members and the cycloalkyl moiety of said - $(C_1 \cdot C_6$ alkylene)cycloalkyl having at least 4 ring members may optionally be replaced by an oxygen or sulfur atom or by N-Z wherein Z is hydrogen; or $C_1 \cdot C_4$ alkyl, and wherein each of said groups R_2 may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, and $C_1 \cdot C_4$ alkyl, or by one substituent selected from bromo, iodo, $C_1 \cdot C_6$ alkoxy, -O-CO- $(C_1 \cdot C_6$ alkyl), -S($C_1 \cdot C_6$ alkyl), -COO($C_1 \cdot C_4$ alkyl), CN, NO₂, -SO($C_1 \cdot C_4$ alkyl), and -SO₂($C_1 \cdot C_4$ alkyl), and wherein said $C_1 \cdot C_1$ alkyl and the $C_1 \cdot C_4$ alkylene moiety of said - $(C_1 \cdot C_4$ alkylene)aryl may optionally contain one carbon-carbon double or triple bond;

or -NR₁R₂ may form a saturated 5- to 8-membered heterocyclic ring, or -CHR₁R₂ may form a saturated 5- to 8-membered carbocyclic ring, wherein each of these rings may optionally contain one or two carbon-carbon double bonds and wherein one or two of the carbon atoms of each of these rings may optionally be replaced with a sulfur or oxygen atom;

 R_3 is C_1 - C_4 alkyl, fluoro, chloro, bromo, iodo, -CH₂OH, -CH₂OCH₃, -O(C₁-C₃ alkyl), -S(C₁-C₃ alkyl), or -SO₂(C₁-C₃ alkyl), wherein said C₁-C₃ alkyl may optionally contain one carbon-carbon double or triple bond; R_4 is hydrogen, C_1 - C_6 alkyl, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, amino, -NHCH₃, -N(CH₃)₂, -CH₂OH, -CH₂OCH₃, or -SO_n(C₁-C₄ alkyl), wherein n is 0, 1 or 2, cyano, hydroxy, -CO(C₁-C₄ alkyl), -CHO, or -COO(C₁-C₄ alkyl) wherein the C₁-C₄ alkyl moieties in the foregoing R_4 groups may optionally contain one carbon-carbon double or triple bond:

R5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, pyrimidyl, benzofuranyl, pyrazinyl or benzothiazolyl, wherein each one of said groups R₅ may optionally be substituted with from one to three substituents independently selected from fluoro, chloro, C_1 - C_6 alkyl and C_1 - C_6 alkoy, or by one substituent selected from iodo, hydroxy, bromo, formyl, cyano, nitro, amino, trifluoromethyl, -NH(C₁-C₄ alkyl), -N(C₁-C₆)(C₁-C₂ alkyl), - $\mathsf{COO}(\mathsf{C}_1\text{-}\mathsf{C}_4 \text{ alkyl}), \ -\mathsf{CO}(\mathsf{C}_1\text{-}\mathsf{C}_4 \text{ alkyl}), \ -\mathsf{COOH}, \ -\mathsf{SO}_2\mathsf{NH}(\mathsf{C}_1\text{-}\mathsf{C}_4 \text{ alkyl}), \ -\mathsf{SO}_2\mathsf{N}(\mathsf{C}_1\text{-}\mathsf{C}_4 \text{ alkyl})(\mathsf{C}_1\text{-}\mathsf{C}_2 \text{ alkyl}), \ -\mathsf{SO}_2\mathsf{NH}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl})(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl}), \ -\mathsf{SO}_2\mathsf{NH}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl})(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl}), \ -\mathsf{SO}_2\mathsf{NH}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl})(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \text{ alkyl})(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \mathsf{C}_4 \text{ alkyl}), \ -\mathsf{SO}_2\mathsf{NH}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4 \mathsf{C}_4 \mathsf{C}_4$ SO₂NH₂, -NHSO₂(C₁-C₄ alkyl), -S(C₁-C₆ alkyl) and -SO₂(C₁-C₆ alkyl), wherein each of said C₁-C₄ alkyl and C₁-C₆ alkyl moieties in the foregoing R⁵ groups may optionally be substituted with one to three fluorine atoms; R₆ is hydrogen, C₁-C₄ alkyl, fluoro, chloro, bromo, iodo, -CH₂OH, -CH₂OCH₃, or C₁-C₄ alkoxy;

R₇ is hydrogen, C₁-C₄ alkyl, fluoro, chloro, bromo, iodo, -O(C₁-C₄ alkyl), cyano, -CH₂OH, -CH₂O(C₁-C₂ alkyl), $-CO(C_1-C_2 \text{ alkyl})$, or $-COO(C_1-C_2 \text{ alkyl})$;

R₁₁ is hydrogen, hydroxy, fluoro, or methoxy; and

R₁₂ is hydrogen or C₁-C₄ alkyl;

with the proviso that when A is N, then: (a) B is not unsubstituted alkyl; (b) R₅ is not unsubstituted phenyl or monosubstituted phenyl; and (c) R₂ is not unsubstituted alkyl;

or a pharmaceutically acceptable salt of such compound.

V. In another embodiment, the CRF antagonist is of the following formula, disclosed in EP 778277:

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or a pharmaceutically acceptable salt thereof, wherein the dashed lines represent optional double bonds;

A is nitrogen or CR7;

B is $-NR^1R^2$, $-CR^1R^2R^{10}$, $-C(=CR^2R^{11})R^1$, $-NHCR^1R^2R^{10}$, $-OCR^1R^2R^{10}$, $-SCR^1R^2R^{10}$, $-CR^2R^{10}NHR^1$, $-CR^2R^{1$ CR²R¹⁰OR¹, -CR²R¹⁰SR¹ or -COR²;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is either double

bonded to E in formulas I and II or double bonded to the adjacent carbon atom common to both fused rings in formula III, or D is CH and is single bonded to E in formulas I and II:

E is nitrogen, CH or carbon;

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F is oxygen, sulfur, CHR4 or NR4 when it is single bonded to E and F is nitrogen or CR4 when it is double bonded to E:

G, when single bonded to E, is hydrogen, C_1 - C_4 alkyl, $-S(C_1$ - C_4 alkyl), $-O(C_1$ - C_4 alkyl), NH_2 , $-NH(C_1$ - C_4 alkyl) or $-N(C_1-C_2 \text{ alkyl})(C_1-C_4 \text{ alkyl})$, wherein each of the $C_1-C_4 \text{ alkyl}$ groups of G may optionally be substituted with one hydroxy, -O(C1-C2 alkyl) or fluoro group; G, when double bonded to E, is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D or F, is absent;

R1 is hydrogen, C1-C6 alkyl optionally substituted with one or two substituents R8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , -C(=O)0- $(C_1$ - $C_4)$ alkyl, $-OC(=O)(C_1$ - C_4 alkyl), - $OC(=O)N(C_1-C_4 \text{ alkyl}), C_1-C_2 \text{ alkyl})$, -NHCO($C_1-C_4 \text{ alkyl})$, -COOH, -COO($C_1-C_4 \text{ alkyl})$, -CONH($C_1-C_4 \text{ alkyl})$ CON(C₁-C₄ alkyl)(C₁-C₂ alkyl), -S(C₁-C₄ alkyl), -CN, -NO₂, -SO(C₁-C₄ alkyl), -SO₂(C₁-C₄ alkyl), -SO₂NH(C₁-C₄ alkyl), -SO₂NH(C4 alkyl) and -SO2N(C1-C4 alkyl)(C1-C2 alkyl), wherein each of the C1-C4 alkyl groups in the foregoing R1 groups may optionally contain one or two double or triple bonds;

R2 is C1-C12 alkyl which may optionally contain from one to three double or triple bonds, aryl or (C1-C4 alkylene)aryl, wherein said aryl and the aryl moiety of said (C1-C4 alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; C3-C8 cycloalkyl or (C1-C₆ alkylene)(C₃-C₈ cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said $(C_1-C_6 \text{ alkylene})(C_3-C_8 \text{ cycloalkyl})$ may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^2 wherein Z^2 is selected from hydrogen, C_1-C_4 alkyl, benzyl and C1-C4 alkanoyl, and wherein each of the foregoing R2 groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C_1 - C_4 alkyl, or with one substituent $selected \ from \ bromo, \ iodo, \ C_1-C_6 \ alkoxy, \ -OC(=O)(C_1-C_6 \ alkyl), \ -OC(=O)N(C_1-C_4 \ alkyl)(C_1-C_2 \ alkyl), \ -S(C_1-C_6 \ alkyl), \ -S(C_1-C_6 \ alkyl), \ -OC(=O)N(C_1-C_6 \ alkyl), \ -OC(=O)N(C_1$ $alkyl),\ amino,\ -NH(C_1-C_2\ alkyl),\ -N(C_1-C_2\ alkyl)(C_1-C_4\ alkyl),\ -N(C_1-C_4\ alkyl)-CO-(C_1-C_4\ alkyl),\ -NHCO(C_1-C_4\ alkyl),\ -NHCO(C$ alkyl), -COOH, -COO(C1-C4 alkyl), -CONH(C1-C4 alkyl), -CON(C1-C4 alkyl)(C1-C2 alkyl), -SH, -CN, -NO2, - $SO(C_1-C_4 \text{ alkyl})$, $-SO_2(C_1-C_4 \text{ alkyl})$, $-SO_2NH(C_1-C_4 \text{ alkyl})$ and $-SO_2N(C_1-C_4 \text{ alkyl})$ ($C_1-C_2 \text{ alkyl}$);

-NR¹R² or CR¹R²R¹⁰ may form a saturated 3 to 8 membered carbocyclic ring which may optionally contain from one to three double bonds and wherein one or two of the ring carbon atoms of such 5 to 8 membered rings may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^3 wherein Z^3 is hydrogen, C₁-C₄ alkyl, benzyl or C₁-C₄ alkanoyl;

R3 is hydrogen, C1-C4 alkyl, -O(C1-C4 alkyl), chloro, fluoro, bromo, iodo, -CN, -S(C1-C4 alkyl) or -SO2(C1-C4 alkyl) wherein each of the (C₁-C₄ alkyl) moieties in the foregoing R³ groups may optionally be substituted with one substituent R9 selected from hydroxy, fluoro and (C1-C2 alkoxy);

each R4 is, independently, hydrogen, (C1-C6 alkyl), fluoro, chloro, bromo, iodo, hydroxy, cyano, amino, nitro, - $O(C_1-C_4 \text{ alkyl}), -N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -S(C_1-C_4 \text{ alkyl}), -SO(C_1-C_4 \text{ alkyl}), -SO_2(C_1-C_4) \text{ alkyl}, -CO(C_1-C_4 \text{ alkyl}), -SO_2(C_1-C_4) \text{ alkyl}, -SO_2(C_1-C$ alkyl), -C(=O)H or -C(=O)O(C_1 - C_4 alkyl), wherein each of the (C_1 - C_6 alkyl) and (C_1 - C_4 alkyl) moieties in the foregoing R4 groups may optionally contain one or two double or triple bonds and may optionally be substituted with one or two substituents independently selected from hydroxy, amino, C1-C3 alkoxy, dimethylamino, methylamino, ethylamino, -NHC(=O)CH3, fluoro, chloro, C1-C3 thioalkyl, -CN, -COOH, -C(=O)O(C1-C4 alkyl), - $C(=O)(C_1-C_4 \text{ alkyl})$ and $-NO_2$;

R5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C3-C8 cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ4 wherein Z4 is hydrogen, C1-C4 alkyl or benzyl; and wherein each of the foregoing R5 groups is substituted with from one to four substituents R12 wherein one to three of said substituents may be selected, independently, from chloro, C1-C6 alkyl and -O(C1-C6 alkyl) and one of said substituents may be selected from bromo, iodo, formyl, -CN, -CF3, -NO2, -NH2, -NH(C1-C4 alkyl), - $N(C_1-C_2 \text{ alkyl})(C_1-C_6 \text{ alkyl}), \ -C(=O)O(C_1-C_4 \text{ alkyl}), \ -C(=O)(C_1-C_4 \text{ alkyl}), \ -COOH, \ -SO_2NH(C_1-C_4 \text{ alkyl}), \ -COOH, \ -COOH, \ -COOH, \ -COO$ $SO_2N(C_1-C_2 \text{ alkyl})(C_1-C_4 \text{ alkyl}), -SO_2NH_2, -NHSO_2(C_1-C_4 \text{ alkyl}), -S(C_1-C_6 \text{ alkyl}) \text{ and } -SO_2(C_1-C_6 \text{ alkyl}), \text{ and } -SO_2(C_1-C_6 \text{ alkyl}), -S(C_1-C_6 \text{ alkyl})$ wherein each of the C1-C4 alkyl and C1-C6 alkyl moieties in the foregoing R5 groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethyl-

 R^7 is hydrogen, C_1 - C_4 alkyl, halo, cyano, hydroxy, -O(C_1 - C_4 alkyl) -C(=O)(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl) OCF3, -CF3, -CH2OH, -CH2O(C1-C4 alkyl); R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁-C₄ alkyl; and

Z is NH, oxygen, sulfur, -N(C_1 - C_4 alkyl), -NC(=O)(C_1 - C_2 alkyl), NC(=O)O(C_1 - C_2 alkyl) or CR¹³R¹⁴ wherein R¹³ and R¹⁴ are independently selected from hydrogen, trifluoromethyl and methyl with the exception that one of R¹³ and R¹⁴ can be cyano;

with the proviso that: (a) in the five membered rings of structures I, II and III, there can not be two double bonds adjacent to each other; and (b) when R⁴ is attached to nitrogen, it is not halo, cyano or nitro; or a pharmaceutically acceptable salt of such compound.

VI. The CRF antagonist can also be of the following formula, disclosed in WO 98/05661:

wherein the dashed lines represent optional double bonds;

A is nitrogen or CR7;

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B is $-NR^1R^2$, $-CR^1R^2R^{10}$, $-C(=CR^2R^{11})R^1$, $-NHCR^1R^2R^{10}$, $-OCR^1R^2R^{10}$, $-SCR^1R^2R^{10}$, $-CR^2R^{10}NHR^1$, $-CR^2R^{10}OR^1$, $-CR^2R^{10}SR^1$ or $-COR^2$, and is single bonded to D; or B is $-CR^1R^2$, and is double bonded to D and D is carbon;

D is nitrogen or CR⁴ and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E or double bonded to B;

E is oxygen, nitrogen, sulfur, C=O, C=S, CR⁶R¹², NR⁶ or CR⁶; or E is a two atom spacer, wherein one of the atoms is oxygen, nitrogen, sulfur, C=O, C=S, CR⁶R¹², NR⁶ or CR⁶, and the other is CR⁶R¹² or CR⁹;

K and G are each, independently, C=O, C=S, sulfur, oxygen, CHR⁸ or NR⁸ when single bonded to both adjacent ring atoms, or nitrogen or CR⁸ when it is double bonded to an adjacent ring atom;

the 6- or 7-membered ring that contains D, E, K and G may contain from one to three double bonds, from zero to two heteroatoms selected from oxygen, nitrogen and sulfur, and from zero to two C=O or C=S groups, wherein the carbon atoms of such groups are part of the ring and the oxygen and sulfur atoms are substituents on the ring;

 R^1 is $\mathsf{C}_1\text{-}\mathsf{C}_6$ alkyl optionally substituted with from one or two substituents independently selected from hydroxy, fluoro, chloro, bromo, iodo, $\mathsf{C}_1\text{-}\mathsf{C}_4$ alkoxy, CF_3 , $\mathsf{-C}(=\mathsf{O})(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-C}(=\mathsf{O})\text{-O}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-OC}(=\mathsf{O})(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-COO}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-COO}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-COO}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CONH}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CON}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CON}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CON}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CON}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-CON}(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, $\mathsf{-SO}_2(\mathsf{C}_1\text{-}\mathsf{C}_4\text{alkyl})$, wherein each of the $\mathsf{C}_1\text{-}\mathsf{C}_4$ alkyl groups in the foregoing R^1 groups may optionally contain one or two double or triple bonds;

rings of which may optionally contain one or two double bonds, and wherein one or two of the ring carbon atoms of such 5 to 8 membered rings may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^3 wherein Z^3 is hydrogen or C_1 - C_4 alkyl;

 R^3 is hydrogen, C_1 - C_4 alkyl, -O(C_1 - C_4 alkyl), chloro, fluoro, bromo, iodo, -S(C_1 - C_4 alkyl) or -SO₂(C_1 - C_4 alkyl); R^4 is hydrogen, C_1 - C_2 alkyl, hydroxy or fluoro;

each R^6 , R^8 and R^9 that is attached to a carbon atom is selected, independently, from hydrogen, C_1 - C_2 alkyl, fluoro, chloro, bromo, iodo, hydroxy, hydroxymethyl, formyl, trifluoromethyl, cyano, amino, nitro, -O(C_1 - C_2 alkyl), -N(C_1 - C_2 alkyl), -S(C_1 - C_2 alkyl), -C(C_1 - C_2 alkyl), wherein each of the C_1 - C_2 alkyl moieties in the foregoing R^6 , R^8 , and R^9 groups may optionally contain one double or triple bond; and each R^6 , R^8 , and R^9 that is attached to a nitrogen atom is selected, independently, from hydrogen and C_1 - C_4 alkyl;

 R^5 is substituted phenyl, naphthyl, pyridyl or pyrimidyl, wherein each of the foregoing R^5 groups is substituted with from two to four substituents R^{15} , wherein from one to three of said substituents may be selected, independently, from chloro, C_1 - C_6 alkyl, -O(C_1 - C_6 alkyl) and -(C_1 - C_6 alkylene)O(C_1 - C_6 alkyl), and wherein one of said substituents may be selected, independently, from bromo, iodo, formyl, cyano, trifluoromethyl, nitro, amino, -NH(C_1 - C_4 alkyl), -N(C_1 - C_2 alkyl)(C_1 - C_6 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)(C_1 - C_4 alkyl), -SO₂NH(C_1 - C_4 alkyl), -SO₂NH(C_1 - C_4 alkyl), -SO₂NH(C_1 - C_6 alkyl), and wherein each of the C_1 - C_4 alkyl and C_1 - C_6 alkyl moieties in the foregoing C_1 groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl;

 R^7 is hydrogen, methyl, halo (e.g., chloro, fluoro, iodo or bromo), hydroxy, methoxy, $-C(=O)(C_1-C_2 \text{ alkyl})$, $-C(=O)O(C_1-C_2 \text{ alkyl})$, trifluoromethoxy, hydroxymethyl, trifluoromethyl or formyl; R^{10} is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁-C₄ alkyl;

R¹² is, hydrogen or methyl; and

Z is NH, oxygen, sulfur, -N(C₁-C₄ alkyl), or CR¹³R¹⁴ wherein R¹³ and R¹⁴ are independently selected from hydrogen, and methyl with the exception that one of R¹³ and R¹⁴ may optionally be cyano;

with the proviso that: (a) in the six or seven membered rings of structures in formula I, there can not be two double bonds adjacent to each other; and (b) when D is carbon and is double bonded to B, then B is CR¹R²; or a pharmaceutically acceptable salt of such compound.

VII. The CRF antagonist can also be of the following formula, disclosed in WO 98/08847:

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or a pharmaceutically acceptable salt thereof, wherein

the dashed lines represent optional double bonds;

A is nitrogen or CR7;

B is $-NR^{1}R^{2}$, $-CR^{1}R^{2}R^{10}$ $-C(=CR^{2}R^{11})R^{1}$, $-NHCR^{1}R^{2}R^{10}$, $-OCR^{1}R^{2}R^{10}$, $-SCR^{1}R^{2}R^{10}$, $-CR^{2}R^{10}NHR^{1}$, $-CR^{2}R^{10}CR^{1}$, $-CR^{2}R^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{10}CR^{10}CR^{10}CR^{10}CR^{10}$, $-CR^{2}R^{10}CR^{1$

J and K are each independently nitrogen or carbon and both J and K are not nitrogens;

D and E are each selected, independently, from nitrogen, CR⁴, C=O, C=S, sulfur, oxygen, CR⁴R⁶ and NR⁸; G is nitrogen or carbon:

the ring containing D, E, G, K, and J in formula I may be a saturated or unsaturated 5-membered ring and may optionally contain one or two double bonds and may optionally contain from one to three heteroatoms in the ring and may optionally have one or two C=O or C=S groups;

 R^1 is C_1-C_6 alkyl optionally substituted with one or two substituents independently selected from hydroxy, fluoro, chloro, bromo, iodo, -O-(C_1-C_4 alkyl), CF_3, -C(=O)O-(C_1-C_4 alkyl), -OC(=O)(C_1-C_4 alkyl), -OC(=O)N(C_1-C_4 alkyl), -NHCO(C_1-C_4 alkyl), -COOH, -COO(C_1-C_4 alkyl), -CONH(C_1-C_4 alkyl), -CON(C_1-C_4 alkyl), -CON(C_1-C_4 alkyl), -S(C_1-C_4 alkyl), -S(C_1-C_4 alkyl), -S(C_1-C_4 alkyl), -S(C_1-C_4 alkyl), and -SO_2N(C_1-C_4 alkyl), -S(C_1-C_4 alkyl), wherein each of the C_1-C_4 alkyl groups in the foregoing R^1 groups may optionally contain one or two double or triple bonds;

 R^2 is C_1 - C_{12} alkyl which may optionally contain from one to three double or triple bonds, aryl or $(C_1$ - C_4 alkylene)aryl, wherein said aryl and the aryl moiety of said $(C_1$ - C_4 alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; C_3 - C_8 cycloalkyl or $(C_1$ - C_6 alkylene) $(C_3$ - C_8 cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said $(C_1$ - C_6 alkylene) $(C_3$ - C_8 cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ² wherein Z^2 is selected from hydrogen, C_1 - C_4 alkyl, benzyl and C_1 - C_4 alkanoyl, and wherein each of the foregoing R^2 groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C_1 - C_4 alkyl, or with one substituent selected from bromo, iodo, C_1 - C_6 alkoy, -OC(=O)(C_1 - C_6 alkyl), -OC(=O)N(C_1 - C_4 alkyl)(C_1 - C_2 alkyl), -N(C_1 - C_6 alkyl), -NHCO(C_1 - C_6 alkyl), -COOH, -COO(C_1 - C_4 alkyl), -CONH(C_1 - C_4 alkyl), -CON(C_1 - C_6 alkyl), -SO, NH(C_1 - C_6 alkyl), -SO, NH(C_1 - C_6 alkyl), -SO, NH(C_1 - C_6 alkyl), and -SO, N(C_1 - C_6 alkyl), -SO, alkyl);

 $-NR^1R^2$ or $CR^1R^2R^{10}$ may form a saturated 3 to 8 membered carbocyclic ring which may optionally contain from one to three double bonds and wherein one or two of the ring carbon atoms of such 5 to 8 membered rings may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^3 wherein Z^3 is hydrogen, C_1 - C_4 alkyl, benzyl or C_1 - C_4 alkanoyl;

 R^3 is hydrogen, C_1 - C_4 alkyl, -O(C_1 - C_4 alkyl), chloro, fluoro, bromo, iodo, (C_1 - C_2 alkylene)-O-(C_1 - C_2 alkyl), (C_1 - C_2 alkylene)-OH, or -S(C_1 - C_4 alkyl);

each R^4 is, independently, hydrogen, $(C_1-C_6$ alkyl), fluoro, chloro, bromo, iodo, hydroxy, cyano, amino, $(C_1-C_2$ alkylene)-OH, CF_3 , CH_2SCH_3 , nitro, $-O(C_1-C_4$ alkyl), $-N(C_1-C_4$ alkyl), $-C(E_1-C_4)$ alkyl), $-C(E_1-E_4)$ alkyl), $-C(E_1-E_4)$ alkyl);

R⁶ is hydrogen, methyl or ethyl;

R8 is hydrogen or C₁-C₄ alkyl;

 R^5 is phenyl, pyridyl, pyrazinyl, pyrimidyl, pyridazinyl and wherein each of the foregoing R^5 groups is substituted with from one to four substituents R^{13} wherein one to three of said substituents may be selected, independently, from fluoro, chloro, $C_1\text{-}C_6$ alkyl and $-O(C_1\text{-}C_6$ alkyl) and one of said substituents may be selected from bromo, iodo, formyl, OH, $(C_1\text{-}C_4$ alkylene)-OH, $(C_1\text{-}C_4$ alkylene)-O- $(C_1\text{-}C_2$ alkyl), -CN, $-CF_3$, $-NO_2$, $-NH_2$, $-NH(C_1\text{-}C_4$ alkyl), $-N(C_1\text{-}C_2$ alkyl)($C_1\text{-}C_6$ alkyl), $-OCO(C_1\text{-}C_4$ alkyl), $(C_1\text{-}C_4$ alkylene)-O- $(C_1\text{-}C_4$ alkyl), $-S(C_1\text{-}C_6$ alkyl), $-C(-C_1\text{-}C_4$ alkyl), and wherein each of the $C_1\text{-}C_4$ alkyl and $C_1\text{-}C_6$ alkyl moieties in the foregoing R^5 groups may optionally have one or two double bonds;

 R^7 is hydrogen, C_1 - C_4 alkyl, halo (e.g., chloro, fluoro, iodo or bromo), hydroxy, -O(C_1 - C_4 alkyl), -C(=O)(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl), -C(=O)O(C_1 - C_4 alkyl); C_1 - C_2 alkyl); C_1 - C_2 alkyl); C_1 - C_2 alkyl); C_1 -C

R¹¹ is hydrogen or C₁-C₄ alkyl; and

with the proviso that: a) when both J and K are carbons and D is CR^4 and E is nitrogen, then G can not be nitrogen; (b) when both J and K are carbons and D and G are nitrogens, then E can not be CR^4 or C=O or C=S; (c) when both J and K are carbons and D and E are carbons, then G can not be nitrogen; (d) when G is carbon, it must be double banded to E; and (e) in the ring containing J, K, D, E and G, there can not be two double bonds adjacent to each other;

and the pharmaceutically acceptable salts of such compounds.

VIII. Other useful CRF antagonists are of the following formula, disclosed in WO 98/08846:

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wherein the dashed lines represent optional double bonds;

A is nitrogen or CR7;

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B is -NR¹R², -CR¹R²R¹⁰, -C(=CR²R¹¹)R¹, -NHCR¹R²R¹⁰, -OCR¹R²R¹⁰, -SCR¹R²R¹⁰, -CR²R¹⁰NHR¹, -CR2R10OR1, -CR2R10SR1 or -COR2;

G is nitrogen or CR4 and is single bonded to all atoms to which it is attached, or G is carbon and is double bonded to K:

K is nitrogen or CR⁶ when double bonded to G or E, or K is oxygen, sulfur, C=O, C=S, CR⁶R¹² or NR⁸ when single bonded to both adjacent ring atoms, or K is a two atom spacer, wherein one of the two ring atoms of the spacer is oxygen, nitrogen, sulfur, C=O, C=S, CR⁶R¹², NR⁶ or CR⁶, and the other is CR⁶R¹² or CR⁹;

D and E are each, independently, C=O, C=S, sulfur, oxygen, CR⁴R⁶ or NR⁸ when single bonded to both adjacent ring atoms, or nitrogen or CR4 when it is double bonded to an adjacent ring atom;

the 6- or 7-membered ring that contains D, E, K and G may contain from one to three double bonds, from zero to two heteroatoms selected from oxygen, nitrogen and sulfur, and from zero to two C=O or C=S groups, wherein the carbon atoms of such groups are part of the ring and the oxygen and sulfur atoms are substituents on the ring:

 R^1 is C_1 - C_6 alkyl optionally substituted with from one or two substituents independently selected from hydroxy, fluoro, chloro, bromo, iodo, C₁-C₄ alkoxy, CF₃, -C(=O)(C₁-C₄alkyl), -C(=O)-O-(C₁-C₄)alkyl, -OC(=O)(C₁-C₄ alkyl), -OC(=O)N(C1-C4 alkyl)(C1-C2 alkyl), -NHCO(C1-C4 alkyl), -COOH, -COO(C1-C4 alkyl), -CONH(C1-C4 alkyl), $-CON(C_1-C_4 alkyl)(C_1-C_2 alkyl)$, $-S(C_1-C_4 alkyl)$, -CN, $-NO_2$, $-SO(C_1-C_4 alkyl)$, $-SO_2(C_1-C_4 alkyl)$ SO₂NH(C₁-C₄ alkyl) and -SO₂N(C₁-C₄ alkyl)(C₁-C₂ alkyl), wherein each of the C₁-C₄ alkyl groups in the foregoing R1 groups may optionally contain one or two double or triple bonds;

R2 is C1-C12 alkyl which may optionally contain from one to three double or triple bonds, aryl or (C1-C4 alkylene)aryl, wherein said aryl and the aryl moiety of said (C1-C4 alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; C₃-C₈ cycloalkyl or (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C1-C6 alkylene)(C3-C8 cycloalkyl may optionally and independently be replaced by an oxygen or sulfur atom or by NZ wherein Z is hydrogen, C₁-C₄ alkyl or benzyl, and wherein each of the foregoing R2 groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C1-C4 alkyl, or with one substituent selected from C1-C6 alkoxy, - $OC(=O)(C_1-C_6 \text{ alkyl}), -OC(=O)N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -S(C_1-C_6 \text{ alkyl}), \text{ amino, -NH}(C_1-C_2 \text{ alkyl}), -N(C_1-C_2 \text{ alkyl}), -N$ $alkyl)(C_1-C_4\ alkyl),\ -N(C_1-C_4\ alkyl),\ -COO(C_1-C_4\ alkyl),\ -NHCO(C_1-C_4\ alkyl),\ -COOH,\ -COO(C_1-C_4\ alkyl),\ -NHCO(C_1-C_4\ alkyl),\$ $CONH(C_1-C_4 \text{ alkyl}), -CON(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -SH, -CN, -NO_2, -SO(C_1-C_4 \text{ alkyl}), -SO_2(C_1-C_4 \text{ alkyl}), -SO_2(C_1 SO_2NH(C_1-C_4 \text{ alkyl}) \text{ and } -SO_2N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl});$

-NR¹R² or CR¹R²R¹⁰ may form a ring selected from saturated 3 to 8 membered rings, the 5 to 8 membered rings of which may optionally contain one or two double bonds, and wherein one or two of the ring carbon atoms of such 5 to 8 membered rings may optionally and independently be replaced by an oxygen or sulfur atom or by NZ² wherein Z² is hydrogen, benzyl or C₁-C₄ alkyl;

R3 is hydrogen, C1-C4 alkyl, -O(C1-C4 alkyl), chloro, fluoro, bromo, iodo, -S(C1-C4 alkyl) or -SO2(C1-C4 alkyl); each R8, R9 and R12 is selected, independently, from hydrogen and C1-C2 alkyl;

each R4 and R6 that is attached to a carbon atom is selected, independently, from hydrogen and C1-C6 alkyl, fluoro, chloro, bromo, iodo, hydroxy, hydroxy (C₁-C₂ alkyl), trifluoromethyl, cyano, amino, nitro, -O(C₁-C₄ alkyl), $-N(C_1-C_4 \text{ alkyl}), -C(-C_2 \text{ alkyl}), -CH_2SCH_3, -S(C_1-C_4 \text{ alkyl}), -CO(C_1-C_4 \text{ alkyl}), -C(-C)H \text{ or } -C(-C)O(C_1-C_4 \text{ alkyl}), -C(-C)O(C_1-C_4 \text{$

wherein each of the C_1 - C_2 alkyl moieties in the foregoing R^4 and R^6 groups may optionally contain one double or triple bond; and R^6 , when attached to a nitrogen atom, is selected from hydrogen and C_1 - C_4 alkyl;

 R^5 is substituted phenyl, naphthyl, pyridyl or pyrimidyl, wherein each of the foregoing R^5 groups is substituted with from two to four substituents R^{13} , wherein up to three of said substituents may be selected, independently, from chloro, $C_1\text{-}C_6$ alkyl, $-O(C_1\text{-}C_6$ alkyl) and $-(C_1\text{-}C_6$ alkylene) $O(C_1\text{-}C_6$ alkyl), and wherein one of said substituents may be selected, independently, from bromo, iodo, formyl, cyano, trifluoromethyl, nitro, amino, -NH($C_1\text{-}C_4$ alkyl), -N($C_1\text{-}C_2$ alkyl)($C_1\text{-}C_6$ alkyl), -C(=O)O($C_1\text{-}C_4$ alkyl), -C(=O)($C_1\text{-}C_4$ alkyl), -COOH, -SO_2NH($C_1\text{-}C_4$ alkyl), -SO_2N($C_1\text{-}C_2$ alkyl)($C_1\text{-}C_4$ alkyl), -SO_2NH_2, -NHSO_2($C_1\text{-}C_4$ alkyl), -($C_0\text{-}C_1$ alkylene)-SO-($C_1\text{-}C_2$ alkyl), -($C_0\text{-}C_1$ alkylene)-SO-($C_1\text{-}C_2$ alkyl) and -($C_1\text{-}C_4$ alkyl) and be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl;

 R^7 is hydrogen, methyl, halo (e.g., chloro, fluoro, iodo or bromo), hydroxy, methoxy, -C(=O)(C₁-C₂ alkyl), -C(=O)O(C₁-C₂ alkyl), hydroxymethyl, trifluoromethyl or formyl;

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro; and

R¹¹ is hydrogen or C₁-C₄ alkyl;

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with the proviso that in the ring containing D, E, K and G of formula I, there can not be two double bonds adjacent to each other;

and the pharmaceutically acceptable salt of such compound.

IX. The CRF antagonist may also be of the following formula, disclosed in WO 95/10506:

$$R^{1}$$
 V
 N
 R^{4}
 K
 M
 K

or a pharmaceutically, acceptable salt or prodrug thereof, wherein Y is CR^{3a} , N, or CR^{29} ; when Y is CR^{3a} or N:

R¹ is independently selected at each occurrence from the group consisting of C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, halogen, C₁-C₂ haloalkyl, NR⁶R⁷, OR⁸, and S(O)_nR⁸; R³ is C₁-C₄ alkyl, aryl, C₃-C₆ cycloalkyl, C₁- $NR^{10}C(=0)CH(R^{11})NR^{10}R^{12}$, $NR^{10}CH(R^{11})CO_2R^{12}$; substituted C_1-C_4 alkyl, substituted C_2-C_4 alkenyl, substituted C_3-C_4 al stituted C2-C4 alkynyl, substituted C1-C4 alkoxy, aryl-(substituted C1-C4) alkyl, aryl-(substituted C1-C4) alkoxy, substituted C3-C6 cycloalkyl, amino-(substituted C1-C4)alkyl, substituted C1-C4 alkylamino, where substitution by R²⁷ can occur on any carbon containing substituent; 2-pyridinyl, imidazolyl, 3-pyridinyl, 4-pyridinyl, 2methyl-3-pyridinyl, 4-methyl-3-pyridinyl, furanyl, 5-methyl-2-furanyl, 2,5-dimethyl-3-furanyl, 2-thienyl, 3-thienyl, 5-methyl-2-thienyl, 2-pheno-thiazinyl, 4-pyrazinyl, azetidinyl, phenyl, 1H-indazolyl, 2-pyrrolidonyl, 2H,6H-1,5,2-dithiazinyl, 2H-pyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazolyl, 4H-quinolizinyl, 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, azepinyl, benzofuranyl, benzothiophenyl, carbazolyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, furazanyl, imidazolidinyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindolinyl, isoindolyl, isoquinolinyl, benzimidazolyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxazolidinyl, oxazolyl, phenanthridinyl, phenanthrolinyl, phenazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, pteridinyl, purinyl, pyraxyl, pyraxolidinyl, pyraxolidiny zolyl, pyridazinyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinazolinyl, quinolinyl, quinoxalinyl, quinuclidinyl,

β-carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, tetrazolyl, thianthrenyl, thiazolyl, thiophenyl, triazinyl, xanthenyl; or 1-tetrahydroquinolinyl or 2-tetrahydroisoquinolinyl either of which can be substituted with 0-3 groups chosen from keto and C₁-C₄ alkyl; J, K, and L are independently selected at each occurrence from the group of N, CH, and CX';

M is CR⁵ or N:

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V is CR1a or N;

Z is CR² or N:

 R^{1a} , R^2 , and R^{3a} are independently selected at each occurrence from the group consisting of hydrogen, halo, halomethyl, C_1 - C_3 alkyl, and cyano;

10 R⁴ is $(CH_2)_mOR^{16}$, C_1 -C₄ alkyl, allyl, propargyl, $(CH_2)_mR^{13}$, or $-(CH_2)_mOC(O)R^{16}$; X is halogen, aryl, heteroaryl, $S(O)_2R^8$, SR^8 , halomethyl, $-(CH_2)_pOR^8$, cyano, $-(CHR^{16})_pNR^{14}R^{15}$, $-C(=O)R^8$, C_1 -C₆ alkyl, C_4 -C₁₀ cycloalkylalkyl, C_1 -C₁₀alkenyl, C_2 -C₁₀alkynyl, C_2 -C₁₀alkoxy, aryl-(C_2 -C₁₀)-alkyl, C_3 -C₆cycloalkyl, aryl-(C_1 -C₁₀)-alkoxy, nitro, thio-(C_1 -C₁₀)-alkyl, $-C(=NOR^{16})$ -C₁-C₄-alkyl, $-C(=NOR^{16})$ +, or -C(=O)NR¹⁴R¹⁵, where substitution by R¹⁸ can occur on any carbon containing substituents;

X' is independently selected at each occurrence from the group consisting of hydrogen, halogen, aryl, heteroaryl, $S(O)_nR^8$, halomethyl, $-(CHR^{16})_pOR^8$, cyano, $-(CHR^{16})_pNR^{14}R^{15}$, $C(=O)R^8$, C_1-C_6 alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_1-C_{10} alkoxy, aryl- $-(C_1-C_{10})$ -alkyl, $-(C_1-C_{10})$ -alkyl, $-(C_1-C_{10})$ -alkyl, $-(C_1-C_1)$ -alkyl, -(

 R^{5} is halo, $-C(=NOR^{16})-C_1-C_4$ -alkyl, C_1-C_4 alkyl, C_1-C_3 haloalkyl, $-(CHR^{16})_pOR^8$, $-(CHR^{16})_pS(O)_nR^8$, $-(CHR^6)_pNR^{14}R^{15}$, C_3-C_6 cycloalkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, aryl- $-(C_2-C_{10})$ -akyl, aryl- $-(C_1-C_1)$ -alkoxy, cyano, C_3-C_6 cycloalkoxy, nitro, amino- $-(C_2-C_1)$ -alkyl, thio- $-(C_2-C_1)$ -alkyl, $-(C_1-C_1)$ -alkyl, or $-(C_1-C_1)$ -alkyl, where substitution by $-(C_1-C_1)$ -alkyl, aryl- $-(C_1-C_1)$ -alkyl, so $-(C_1-C_1)$ -alkyl, or $-(C_1-C_1)$ -alkyl, where substitution by $-(C_1-C_1)$ -alkyl, aryl- $-(C_1-C_1)$ -alkyl, so $-(C_1-C_1)$ -alkyl, aryl- $-(C_1-C_1)$ -alkyl, so $-(C_1-C_1)$ -alkyl, aryl- $-(C_1$

R⁶ and R⁷ are independently selected at each occurrence from the group consisting of hydrogen, C₁-C₆ alkyl, C₃-C₁₀ cycloalkyl, C₁-C₆ alkoxy, (C₄-C₁₂)-cycloalkylalkyl, -(CH₂)_kR¹³, (CHR¹⁶)_pOR⁸, -(C₁-C₆alkyl)-aryl, heteroaryl, -S(O)_z-aryl or -(C₁-C₆alkyl)-heteroaryl or aryl, wherein the aryl or heteroaryl groups are optionally substituted with 1-3 groups selected from the group consisting of hydrogen, halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, amino, NHC(=O)(C₁-C₆ alkyl), NH(C₁-C₆ alkyl), N(C₁-C₆ alkyl)₂, nitro, carboxy, CO₂(C₁-C₆ alkyl), cyano, and S(O)₂-(C₁-C₆-alkyl); or can be taken together to form -(CH₂)_pA(CH₂)_r-, optionally substituted with 0-3 R¹⁷; or, when considered with the commonly attached nitrogen, can be taken together to form a heterocycle, said heterocycle being substituted on carbon with 1-3 groups consisting of hydrogen, C₁-C₆ alkyl, hydroxy, or C₁-C₆ alkoxy:

A is CH_2 , O, NR^{25} , C(=0), $S(O)_n$, $N(C(=O)R^{17})$, $N(R^{19})$, $C(H)(NR^{14}R^{15})$, $C(H)(OR^{20})$, $C(H)(C(=O)R^{21})$, or $N(S(O)_nR^{21})$;

 R^8 is independently selected at each occurrence from the group consisting of hydrogen; $C_1\text{-}C_6$ alkyl; $\{C_4\text{-}C_{12}\}$ cycloalkylalkyl; $\{C_4\}_{12}^{22}$; $C_3\text{-}C_{10}$ cycloalkyl; $\{C_4\}_{12}^{22}$; and $\{C_2\}_{12}^{22}$; $\{C_3\}_{12}^{22}$; $\{C_3\}_{12}^{22}$; and $\{C_3\}_{12}^{22}$; and $\{C_3\}_{12}^{22}$; and $\{C_3\}_{12}^{22}$; and $\{C_3\}_{12}^{22}$; and in the group consisting of hydrogen, halogen, $C_1\text{-}C_6$ alkyl, $C_1\text{-}C_6$ alkoy, amino, NHC(=0)($C_1\text{-}C_6$ alkyl), NH($C_1\text{-}C_6$ alkyl), N($C_1\text{-}C_6$ alkyl), nitro, carboxy, CO₂($C_1\text{-}C_6$ alkyl), cyano, and S(O)₂($C_1\text{-}C_6$ -alkyl);

 R^9 is independently selected at each occurrence from R^{10} , hydroxy, C_1 - C_4 alkoxy, C_3 - C_6 cycloalkyl, C_2 - C_4 alkenyl, aryl substituted with 0-3 R^{18} , and -(C_1 - C_6 alkyl)-aryl substituted with 0-3 R^{18} ;

R¹⁰, R¹⁶, R²⁴, and R² are independently selected at each occurrence from hydrogen or C₁-C₄ alkyl;

 R^{11} is C_1 - C_4 alkyl substituted with 0-3 groups chosen from the following: keto, amino, sulfhydryl, hydroxyl, guanidinyl, p-hydroxyphenyl, imidazolyl, phenyl, indolyl, and indolinyl, or, when taken together with an adjacent R^{10} , are $(CH_2)_i$;

R¹² is hydrogen or an appropriate amine protecting group for nitrogen or an appropriate carboxylic acid protecting group for carboxyl;

R¹³ is independently selected at each occurrence from the group consisting of CN, OR¹⁹, SR¹⁹, and C₃-C₆ cycloalkyl;

R¹⁴ and R¹⁵ are independently selected at each occurrence from the group consisting of hydrogen, C₄-C₁₀, cycloalkyl-alkyl, and R₁₉;

 R^{17} is independently selected at each occurrence from the group consisting of R^{10} , C_1 - C_4 alkoxy, halo, OR^{23} , SR^{23} , $NR^{23}R^{24}$, and $(C_1$ - $C_6)$ alkyl $(C_1$ - $C_4)$ alkoxy;

 R_{18} is independently selected at each occurrence from the group consisting of R^{10} , hydroxy, halogen, C_1 - C_2 haloalkyl, C_1 - C_4 alkoxy, C(=0) R^{24} , and cyano;

 R^{19} is independently selected at each occurrence from the group consisting of C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl, $(CH_2)_wR^{22}$, and aryl substituted with 0-3 R^{18} ;

R²⁰ is independently selected at each occurrence from the group consisting of R¹⁰, C(=0)R³¹, and C₂-C₄ alke-

nyi;

R²¹ is independently selected at each occurrence from the group consisting of R^{1O}, C₁-C₄ alkoxy, NR²³R²⁴, R²² is independently selected at each occurrence from the group consisting of cyano, OR²⁴, SR²⁴, $NR^{23}R^{24}$, C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl, -S(O)_nR³¹, and -C(=O)R²⁵; 5 R²⁵, which can be optionally substituted with 0-3 R17, is independently selected at each occurrence from the group consisting of phenyl, pyrazolyl, imidazolyl, 2-methyl-3-pyridinyl, 4-methyl-3-pyridinyl, furanyl, 5-methyl-2furanyl, 2,5-dimethyl-3-furanyl, 2-thienyl, 3-thienyl, 5-methyl-2-thienyl, 2-pheno-thiazinyl, 4-pyrazinyl, azetidinyl, 1H-indazolyl, 2-pyrrolidonyl, 2H,6H-1,5,2-dithiazinyl, 2H-pyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazolyl, 4H-quinolizinyl, 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, azepinyl, benzofuranyl, benzothiophenyl, 10 carbazolyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, furazanyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindolinyl, isoindolyl, isoquinolinyl benzimidazolyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxazolidinyl, oxazolyl, phenanthridinyl, phenanthrolinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, pteridinyl, purinyl, pyranyl, pyrazolidinyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinazolinyl, quinoli-15 nyl, quinoxalinyl, quinuclidinyl, B-carbolinyl, tetrahydrofuranyl, tetrazolyl, thianthrenyl, thiazolyl, thiophenyl, triazinyl, xanthenyl; and 1 -tetrahydroquinolinyl or 2-tetrahydroisoquinolinyl either of which can be substituted with 0-3 groups chosen from keto and C1-C4 alkyl; R^{25a}, which can be optionally substituted with 0-3 R¹⁷, is independently selected at each occurrence from the group consisting of H and R²⁵; 20 R²⁷ is independently selected at each occurrence from the group consisting of C₁-C₃ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₂-C₄ alkoxy, aryl, nitro, cyano, halogen, aryloxy, and heterocycle optionally linked through 0; R³¹ is independently selected at each occurrence from the group consisting of C₁-C₄ alkyl, C₃-C₇ cycloalkyl, C₄-C_{1O} cycloalkyl-alkyl, and aryl-(C₁-C₄) alkyl; k, m, and r are independently selected at each occurrence from 1-4; 25 n is independently, selected at each occurrence from 0-2, p, q, and z are independently selected at each occurrence from 0-3; t and w are independently selected at each occurrence from 1-6, provided that when J is CX' and K and L are both CH, and M is CR5, then 30 (A) when V and Y are N and Z is CH and R¹ and R³ are methyl, (1) and R4 is methyl, then (a) R5 can not be methyl when X is OH and X' is H; 35 (b) R⁵ can not be —NHCH₃, or -N(CH₃)₂ when X and X' are —OCH₃; and (c) R⁵ can not be -N(CH₃)₂ when X and X' are —OCH₂CH₃; (2) and R4 is ethyl, then 40 (a) R⁵ can not be methylamine when X and X' are —OCH₃; (b) R5 can not be OH when X is Br and X' is OH; and (c) R5 can not be ---CH2OH or -CH2N(CH3)2 when X is -SCH3 and X' is H; (B) when V and Y are N, Z is CH, R4 is ethyl, R5 is iso-propyl, X is Br, X' is H, and 45 (1) R1 is CH3, then (a) R³ can not be OH, piperazin-1-yl, -CH₂,-piperidin-1-yl, 50 -CH2-(N-4-methylpiperazi n-1-yl), -C(O)NH-phenyl, -CO2H, -CH2O-(4-pyridyl), -C(O)NH2, 2-indolyl, -CH2O-(4-carboxyphenyl), -N(CH₂CH₃)(2-bromo-4-isopropylphenyl); 55 (2) R2 is -CH2CH2CH3 then R3 can not be -CH2CH2CH3 (C) when V, Y and Z are N, R4 is ethyl, and

- (1) R⁵ is iso-propyl, X is bromo, and X' is H, then
 - (a) R³ can not be OH or —OCH₂CN when R¹ is CH₃ and
 - (b) R³ can not be -N(CH₃)₂ when R¹ is -N(CH₃)₂;
- (2) R⁵ is —OCH₃, X is -OCH₃, and X' is H, then R³ and R¹ can not both be chloro; further provided that when J, K, and L are all CH and M is CR5, then
- (D) at least one of V, Y, and Z must be N;
- (E) when V is CR1a, Z and Y can not both be N;
- (F) when Y is CR3a, Z and V can not both be N;
- (G) when Z is CR2, V and Y must both be N;
- (H) Z can be N only when both V and Y are N or when V is CR1a and Y is CR3a;
- (I) when V and Y are N, Z is CR2, and R2 is H or C1-C3 alkyl, and R4 is C1-C3 alkyl, R3 can not be 2-pyridinyl, indolyl, indolinyl, imidazolyl, 3-pyridinyl, 4-pyridinyl, 2-methyl-3-pyridinyl, 4-methyl-3-pyridinyl, furanyl, 5-methyl-2-furanyl, 2,5-dimethyl-3-furanyl, 2-thienyl, 5-methyl-2-thienyl, 2-phenothiazinyl, or 4pyrazinyl;
- (J) when V and Y are N; Z is CR²; R² is H or C₁-C₃ alkyl; R⁴ is C₁-C₄ alkyl, R⁵, X, and/or X' are OH, halo, CF₃, C₁-C₄ alkyl, C₁-C₄ alkoxy, C₁-C₄ alkylthio, cyano, amino, carbamoyl, or C₁-C₄ alkanoyl; and R¹ is C₁- C_A alkyl, then R^A can not be -NH(substituted phenyl) or -N(C_1 - C_A alkyl) (substituted phenyl);

and wherein, when Y is CR29:

J, K, L, M, Z, A, k, m, n, p, q, r, t, w, R^3 , R^{10} , R^{11} , R^{12} , R^{13} , R^{16} , R^{18} , R^{19} , R^{21} , R^{23} , R^{24} , R^{25} , and R^{27} are as defined above and R^{25a}, in addition to being as defined above, can also be C₁-C₄ alkyl, but

R1 is C1-C2 alkyl, C2-C4 alkenyl, C2-C4 alkynyl, C2-C4 alkoxy, halogen, amino, methylamino, dimethylamino, aminomethyl, or N-methylaminomethyl;

R2 is independently selected at each occurrence from the group consisting of hydrogen, halo, C1-C3, alkyl, nitro, amino, and —CO₂R¹⁰;

 R_A is taken together with R^{29} to form a 5-membered ring and is $-C(R^{26}) = \text{or -N} = \text{when } R^{29}$ is $-C(R^{30}) = \text{or -N} = \text$ or -CH(R26)- when R29 is -CH(R30)-;

X is CI, Br, I, S(O)nR⁸, OR⁸, halomethyl, -(CHR¹⁶)_nOR⁸, cyano, -(CHR¹⁶)_nNR¹⁴R¹⁵, C(=O)R⁸, C₁-C₆ alkyl, C₂-C₁₀ alkenyl, C₂-C₁₀ alkynyl, C₁-C₁₀, alkoxy, aryl-(C₁-C₁₀)-alkyl, C₃-C₆ cycloalkyl, aryl-(C₁-C₁₀)-alkoxy, nitro, thio- (C_1-C_{10}) -alkyl, $-C(=NOR^{16})$ - C_1-C_4 -alkyl, $-C(=NOR^{16})$ H, or $C(=O)NR^{14}R^{15}$ where substitution by R^{18} can occur on any carbon containing substituents;

X' is hydrogen, Cl, Br, I, S(O)_nR⁸, -(CHR¹⁶)_pOR⁸, halomethyl, cyano, -(CHR¹⁶)_pNR¹⁴R¹⁵, C(=O)R⁸, C₁-C₆ alkyl, C2-C10alkenyl, C2-C10, alkynyl, C1-C10 alkoxy, aryl-(C1-C10)-alkyl, C3-C6 cycloalkyl, aryl-(C2-C10)-alkoxy, nitro, thio-(C2-C10)-alkyl, -C(=NOR16)-C1-C4-alkyl, -C(=NOR16)H, or C(=0)NR8R15 where substitution by R18 can occur on any carbon containing substituents;

 R^5 is halo, $-C(=NOR^{16})-C_1-C_4$ -alkyl, C_1-C_6 alkyl, C_1-C_3 haloalkyl, C_1-C_6 alkoxy, $(CHR^{16})_pOR^5$, $(\text{CHR}^{16})_{\text{D}}\text{S}(\text{O})_{\text{n}}\text{R}^{8},\ (\text{CHR}^{16})_{\text{D}}\text{NR}^{14}\text{R}^{15},\ C_{3}\text{-}C_{6}\ \text{cycloalkyl},\ C_{2}\text{-}C_{10}\ \text{alkenyl},\ C_{2}\text{-}C_{10}\ \text{alkynyl},\ \text{aryl-}(C_{2}\text{-}C_{10})\text{-alkyl},\ \text{aryl-}(C_{$ aryl- (C_1-C_{10}) -alkoxy, cyano, C_3-C_6 cycloalkoxy, nitro, amino- (C_1-C_{10}) -alkyl, thio- (C_1-C_{10}) -alkyl, $SO_n(R^8)$, C(=O)R⁸, -C(=NOR¹⁶)H, or C(=O)NR⁸R¹⁵ where substitution by R¹⁸ can occur on any carbon containing sub-

R⁶ and R⁷ are independently selected at each occurrence from the group consisting of hydrogen, C₁-C₆ alkyl, C₃-C₁₀ cycloalkyl, -(CH₂)_kR¹³, (C₄-C₁₂)-cycloalkylalkyl, C₁-C₆ alkoxy, -(C₁-C₆ alkyl)-aryl, heteroaryl, aryl, -S(O)_z-aryl or -(C₁-C₆ alkyl)-heteroaryl or aryl wherein the aryl or heteroaryl groups are optionally substituted with 1-3 groups selected from hydrogen, halogen, C1-C6 alkyl, C1-C6 alkoxy, amino, NHC(=O)(C1-C6 alkyl), $NH(C_1-C_6 \text{ alkyl})$, $N(C_1-C_6 \text{ alkyl})_2$, nitro, carboxy, $CO_2(C_1-C_6 \text{ alkyl})$, and cyano; or can be taken together to form -(CH₂)qA(CH₂)_r-, optionally substituted with 0-3 R¹⁷; or, when considered with the commonly attached nitrogen, can be taken together to form a heterocycle, said heterocycle being substituted on carbon with 1-3 groups consisting of hydrogen, C1-C6 alkyl, hydroxy, or C1-C6 alkoxy;

R8 is independently selected at each occurrence from the group consisting of hydrogen, C1-C6 alkyl, -(C4-C12) cycloalkylalkyl, (CH₂)₁R²², C₃-C₁₀ cycloalkyl, -(C₁-C₆ alkyl)-aryl, heteroaryl, -NR¹⁶, -N(CH₂)_nNR⁶R⁷; -(CH₂)_kR²⁵, -(C₁-C₆ alkyl)-heteroaryl or aryl optionally substituted with 1-3 groups selected from hydrogen, halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, amino, NHC(=O)(C₁-C₆ alkyl), NH(C₁-C₆ alkyl), N(C₁-C₆ alkyl)₂, nitro, carboxy, CO₂(C₁-C₆ alkyl), and cyano;

R9 is independently selected at each occurrence from R10, hydroxy, C1-C4 alkoxy, C3-C6 cycloalkyl, C2-C4

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alkenyl, and aryl substituted with 0-3 R18;

 R^{14} and R^{15} are independently selected at each occurrence from the group consisting of hydrogen, C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl, $(CH_2)_1R^{22}$, and aryl substituted with 0-3 R^{18} ;

 R^{17} is independently selected at each occurrence from the group consisting of R^{10} , C_1 - C_4 alkoxy, halo, OR^{23} , SR^{23} , and $NR^{23}R^{24}$:

R²⁰ is independently selected at each occurrence from the group consisting of R¹⁰ and C(=O)R³¹;

 R^{22} is independently selected at each occurrence from the group consisting of cyano, OR^{24} , SR^{24} , $NR^{23}R^{24}$, C_3 - C_6 cycloalkyl, -S(O)_nR³¹, and -C(=O)R²⁵;

R²⁶ is hydrogen or halogen;

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 R^{28} is C_1 - C_2 , alkyl, C_2 - C_4 alkenyl, C_2 - C_4 alkynyl, hydrogen, C_1 - C_2 alkoxy, halogen, or C_2 - C_4 alkylamino; R^{29} is taken together with R^4 to form a five membered ring and is: -CH(R^{30})- when R^4 is -CH(R^{28})-, -C(R^{30}) = or -N = when R^4 is -C(R^{28}) = or -N=;

 R^{30} is hydrogen, cyano, C_1 - C_2 alkyl, C_1 - C_2 alkoxy, halogen, C_1 - C_2 alkenyl, nitro, amido, carboxy, or amino; R^{31} is C_1 - C_4 alkyl, C_3 - C_7 cycloalkyl, or aryl-(C_1 - C_4) alkyl; provided that when J, K, and L are all CH, M is CR^5 , Z is CH, R^3 is CH_3 , R^{28} is H, R^5 is isopropyl, X is Br, X' is H, and R^1 is CH_3 , then R^{30} can not be H, - CO_2 H, or - CH_2 NH₂; and further provided that when J, K and L are all CH; M is CR^5 ; Z is N; and

(A) R^{29} is $-C(R^{30})$ =; then one of R^{28} or R^{30} is hydrogen;

(B) R^{29} is N; then R^3 is not halo, NH_2 , NO_2 , CF_3 , CO_2H , CO_2 -alkyl, alkyl, acyl, alkoxy, OH, or - $(CH_2)_m Oalkyl$;

(C) R²⁹ is N; then R²⁸ is not methyl if X or X' are bromo or methyl and R⁵ is nitro; or

(D) R²⁹ is N; and R¹ is CH₃; and R³ is amino; then R⁵ is not halogen or methyl. Preferred compounds of this group include those wherein:

i) V is N, R¹ is methyl; and R³ is aryl, NR⁶R⁷, or OR⁸;

ii) V is N, R¹ is methyl; R³ is aryl, NR⁶R⁷, or OR⁸; and R⁴ is methyl or ethyl;

iii) V is N, R^1 is methyl; R^3 is aryl, NR^6R^7 , or OR^8 ; R^4 is methyl or ethyl; and X is $O(C_1-C_4$ alkyl), Br, or C_1-C_4 alkyl;

iv) V is N, R^1 is methyl; R^3 is aryl, NR^6R^7 , or OR^8 ; R^4 is methyl, ethyl; X is OMe, Br, or $(C_1-C_4$ alkyl), M is C_1-C_4 alkyl, Br, Cl, or $O(C_1-C_4$ alkyl); and

v) V is N, R¹ is methyl; R³ is aryl, NR⁶R⁷, OR⁸; or R⁴ is methyl, ethyl; X is OMe, Br, or C₁-C₄ alkyl, M is C₁-C₄ alkyl, Br, Cl, or O(C₁-C₄ alkyl); and L is CH, or N.

X. The invention also encompasses use of aminothiazole derivatives of the following formula, disclosed in WO 97/00868:

$$\begin{array}{c|c}
R^4 & S & R^5 \\
\hline
R^3 & N & R^6
\end{array}$$

wherein each of R^1 and R^2 is independently a halogen atom; a $C_1.C_5$ hydroxyalkyl radical; C_1-C_5 alkyl; C_7-C_{10} aralkyl; $C_1.C_5$ alkoxy; trifluoromethyl; nitro; nitrile; a group -SR where R is hydrogen, a C_1-C_5 alkyl radical or a C_7-C_{10} aralkyl radical; a group S-CO-R where R is a C_1-C_5 alkyl radical or aralkyl in which the aryl portion is C_6-C_8 and the alkyl portion is C_1-C_4 ; a group —COOR' where R' is hydrogen or C_1-C_5 alkyl; a group -CONR'R" where R' and R" are as defined above for R'; a group -NR'R" where R' and R" are as previously defined for R'; a group —CONRaRb or NRaRb, where Ra and Rb, taken together with the nitrogen atom to which they are attached, form a 5- to 7-membered heterocyclic ring; or a group —NHCO-NR'R", where R' and R" are as defined above for R'; R³ is hydrogen or as defined for R¹ and R² is a hydrogen atom; C_{1-5} alkyl; halogen; a hydroxymethyl group; or a formyl group; R⁵ is C_1-C_5 alkyl; a C_3-C_7 cycloalkyl group; a cycloalkylalkyl group in which the cycloalkyl in which the alkyl portion is C_3-C_7 and the alkyl portion is C_3-C_7 cycloalkylalkyl group in which the cycloalkyl portion is C_3-C_7 and the alkyl portion is C_3-C_7 cycloalkyl; a cycloalkylalkyl group in which the cycloalkyl portion is C_3-C_7 and the alkyl portion is C_3

portion is C_1 - C_5 ; a cycloalkyloxyalkyl radical in which the cycloalkyl is C_3 - C_7 and the alkyl is C_1 - C_4 ; a hydroxyalkyloxyalkyl radical in which the alkyls are C_2 - C_{10} ; or an alkoxyalkyloxyalkyl radical in which the alkyls are C_3 - C_{12} ; and Z is an optionally substituted bi- or tricyclic aromatic or heteroaromatic group; and stereoisomers and/or addition salts thereof.

XI. CRF antagonists of the following formula, disclosed in WO 97/29109, may also be employed:

$$R^3$$
 R^1
 R^1
 R^2

including the stereoisomers and the pharmaceutically acceptable acid addition salt forms thereof, wherein R^1 is NR^4R^5 or OR^5 ;

R² is C₁-C₆alkyl, C₁-C₆alkyloxy or C₁-C₆alkylthio,

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R³ is hydrogen, C₁-C₆alkyl, C₁-C₆alkylsulfonyl, C₁-C₆alkylsulfoxy or C₁-C₆alkylthio;

 R^4 is hydrogen, C_1 - C_6 alkyl, mono- or di(C_3 - C_6 cyloalkylmethyl, C_3 - C_6 cyloalkyl, C_3 - C_6 alkenyl, hydroxy C_1 - C_6 alkyl, C_1 - C_6 alkylcarbonyloxy C_1 - C_6 alkyl or C_1 - C_6 alkyloxy C_1 - C_6 alkyl;

 R^5 is C_1 - C_8 alkyl, mono- or $di(C_3$ - C_6 cycloalkyl)methyl, Ar^1CH_2 , C_3 - C_6 alkenyl, C_1 - C_6 alkyloxy C_1 - C_6 alkyl, hydroxy C_1 - C_6 alkyl, thienylmethyl, furanylmethyl, C_1 - C_6 alkylthio C_1 - C_6 alkyl, morpholinyl, mono- or $di(C_1$ - C_6 alkyl)amino C_1 - C_6 alkyl, $di(C_1$ - C_6 alkyl)amino, C_1 - C_6 alkyl)amino, C_1 - C_6 alkyl, $di(C_1$ - C_6 alkyl)amino, $di(C_1$ - $di(C_$

or R^4 and R^5 taken together with the nitrogen atom to which they are attached may form a pyrrolidinyl, piperidinyl, homopiperidinyl or morpholinyl group, optionally substituted with C_1 - C_6 alkyl or C_1 - C_6 alkyl, and

Ar is phenyl; phenyl substituted with 1, 2 or 3 substituents independently selected from halo, C_1 - C_6 alkyl, trif-luoromethyl, hydroxy, cyano, C_1 - C_6 alkyloxy, benzyloxy, C_1 - C_6 alkylthio, nitro, amino and mono- or di(C_1 - C_6 alkyl)amino; pyridinyl; pyridinyl substituted with $I \sim 2$ or 3 substituents independently selected from halo, C_1 - C_6 alkyl, trifluoromethyl, hydroxy, cyano, C_1 - C_6 alkyloxy, benzyloxy, C_1 - C_6 alkylthio, nitro, amino, mono- or di(C_1 - C_6 alkyl)amino and piperidinyl; and wherein said substituted phenyl may optionally be further substituted with one or more halogens;

Ar 1 is phenyl; phenyl substituted with 1, 2 or 3 substituents each independently selected from halo, C_1 - C_6 alkyl, C_1 - C_6 alkyloxy, di(C_1 - C_6 alkyl)amino C_1 - C_6 alkyl, trifluoromethyl and C_1 - C_6 alkyl substituted with morpholinyl; or pyridinyl; and Alk is C_1 - C_6 alkanediyl; with the proviso that 5-methyl-3-phenyl-7-(phenylmethoxy)-pyrazolo[1,5-a]-pyrimidine and 2,5-dimethyl-7-(methylamino)-3-phenyl-pyrazolo[1,5-a]-pyrimidine are not included.

Preferred compounds of this formula are those wherein R^2 is methyl; R^3 is hydrogen; or C_1 - C_6 alkyl; and Ar is substituted phenyl or 3-pyridyl.

XII. CRF antagonists of the following formula, disclosed in WO 97/29110, may also be employed:

$$R^3$$
 R^3
 R^3
 R^3
 R^3

including the stereoisomers and the pharmaceutically acceptable acid addition salt forms thereof, wherein X is S. SO or $S0_2$;

R1 is NR4R5 or OR5;

R² is C₁-C₆alkyl, C₁-C₆alkyloxy or C₁-C₆alkylthio;

R³ is hydrogen, C₁-C₆alkyl, C₁-C₆alkylsulfonyl, C₁-C₆alkylsulfoxy or C₁-C₆alkylthio;

 R^4 is hydrogen, $\mathsf{C}_{1\text{-}6}$ alkyl, mono- or di(C_3-C_6 cycloalkyl) methyl, C_3 -C_6 cycloalkyl, C_3 -C_6 alkyl, C_3 -C_6 alkyl, C_1 -C_6 al

 R^{5} is C_{1} - C_{8} alkyl, mono- or $di(C_{3}$ - C_{6} cycloalkyl)methyl, Ar^{1} CH₂, C_{3} - C_{6} alkenyl, C_{1} - C_{6} alkyloxyC₁- C_{6} alkyl, hydroxyC₁- C_{6} alkyl, thienylmethyl, furanylmethyl, C_{1} - C_{6} alkylthioC₁- C_{6} alkyl, morpholinyl, mono- or $di(C_{1}$ - C_{6} alkyl)aminoC₁- C_{6} alkyl, $di(C_{1}$ - C_{6} alkyl)amino, C_{1} - C_{6} alkylcarbonylC₁- C_{6} alkyl, C_{1} - C_{6} alkyl substituted with imidazolyl; or a radical of formula -Alk-O-CO-Ar I; or R^{4} and R^{5} taken together with the nitrogen atom to which they are attached may form a pyrrolidinyl, piperidinyl, homopiperidinyl or morpholinyl group, optionally substituted with C_{1} - C_{6} alkyl or C_{1} - C_{6} alkyloxyC₁- C_{6} alkyl;

Ar is phenyl; phenyl substituted with 1, 2 or 3 substituents independently selected from halo, C_1 - C_6 alkyl, trifluoromethyl, hydroxy, cyano, C_1 - C_6 alkyloxy, benzyloxy, C_1 - C_6 alkylthio, nitro, amino and mono- or di(C_1 - C_6 alkyl)amino; pyridinyl; pyridinyl substituted with 1, 2 or 3 substituents independently selected from halo, C_1 - C_6 alkyl, trifluoromethyl, hydroxy, cyano, C_1 - C_6 alkyloxy, benzyloxy, C_1 - C_6 alkylthio, nitro, amino, mono- or di(C_1 - C_6 alkyl)amino and piperidinyl; and wherein said substituted phenyl may optionally be further substituted with one or more halogens;

Ar¹is phenyl; phenyl substituted with 1, 2 or 3 substituents each independently selected from halo, C_1 - C_6 alkyl, C_1 - C_6 alkyloxy, $di(C_1$ - C_6 alkyl)amino C_1 - C_6 alkyl trifluoromethyl, and C_1 - C_6 alkyl substituted with morpholinyl; or pyridinyl; and

Alk is C1-C6alkanediyl.

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Preferred compounds of this group include those wherein:

- i) R2 is methyl;
- ii) R² is methyl; and Ar is substituted phenyl or 3-pyridyl;
- iii) R² is methyl; R³ is methyl; and Ar is substituted phenyl or 3-pyridyl.

Specific CRF antagonists useful in the practice of the invention, include, without limitation, the following compounds:

4-(1-ethyl-propoxy)-3,6-dimethyl-2-(2,4,6-trimethylphenoxy)-pyridine;

butyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-6,7-dihydro-5H-pyrrolo[2,3-d]pyrimidin-4-yl]-ethyl-amino;

4-(butyl-ethylamino)-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-5,7-dihydro-pyrrolo[2,3-d]pyrimidin-6-one;

4-(1-ethylpropoxy)-2,5-dimethyl-6-(2,4,6-trimethylphenoxy)-pyrimidine;

N-butyl-N-ethyl-2,5-dimethyl-NN-(2,4,6-trimethylphenyl)-pyrimidine-4,6-diamine;

[4-(1-ethyl-propoxy)-3,6-dimethyl-pyridin-2-yl]-(2,4,6-trimethylphenyl)-amine;

6-(ethyl-propyl-amino)-2,7-dimethyl-9-(2,4,6-trimethylphenyl)-7,9-dihydro-purin-8-one;

3-{(4-methyl-benzyl)-[3,6-dimethyl-1-(2,4,6-tnmethylphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amino}-propan-1-ol;

diethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

2-{butyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amino}-ethanol; dibutyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl}-amine;

butyl-ethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

butyl-ethyl-[6-methyl-3-methylsulfonyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

butyl-cyclopropylmethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-

vll-amine;

di-1-propyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine; diallyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine; butyl-ethyl-[6-chloro-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine; butyl-ethyl-[6-methoxy-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

propyl-ethyl-[3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

4-(1-ethyl-propyl)-6-methyl-3-methylsulfanyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-d]pyrimidine;

n-butyl-ethyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl] amine;

di-n-propyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;

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ethyl-n-propyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
              diethyl-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
              n-butyl-ethyl-[2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yllamine:
             2-{N-n-butyl-N-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino}-ethanol;
              4-(1-ethyl-propyl)-2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidine;
5
             n-butyl-ethyl-[2,5-dimethyl-7-(2,4-dimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
             2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidyl-4-yl]-(1-ethylpropyl)amine:
             butyl-[3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridin-4-yl]-ethylamine;
             [3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1 H-pyrazolo [3,4,b] pyridin-4-yl]-(1-methoxymethylpropyl)-amine;\\
             4-(1-methoxymethylpropoxy)-3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridine;
10
             (1-ethylpropyl)-[3,5,6-trimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridin-4-yl]amine;
             4-(1-ethylpropoxy)-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-b]pyridine;
             4-(1-ethylpropoxy)-2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-b]pyridine:
             4-(1-ethylpropoxy)-2,5-dimethyl-7-(2,6-dimethyl-4-bromophenyl)-7H-pyrrolo[2,3-b]pyridine;
             2,5,6-trimethyl-7-(1-propylbutyl)-4-(2,4,6-trimethylphenoxy)-7H-pyrrolo[2,3-d]pyrimidine;
15
             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenylamino)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             9-(1-ethylpropyl)-2-methyl-6-(2,4,6-trimethylphenylamino)-7,9-dihydro-purin-8-one;
             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenoxy)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenoxy)-1H-imidazo[4,5-c]pyridine;
             1-(1-ethylpropyl)-3,6-dimethyl-4-(2,4,6-trimethylphenoxy)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
20
             1-(1-ethylpropyl)-3,6-dimethyl-4-(2,4,6-trimethylphenylamino)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-pyrido[3,4-b]pyrazin-3-one:
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-pyrido[3,4-b]pyrazin-3-one:
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-pyrido[3,4-b]pyrazine;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-pyrido[3,4-b]pyrazine;
25
             1-(1-ethyl-propyl)-7-methyl-2-oxo-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]na phthyridine-3-carbox-
             vlic acid methyl ester:
             1-(1-ethyl-propyl)-7-methyl-2-oxo-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]na phthyridine-3-carbox-
             vlic acid isopropyl ester:
30
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-3,4-dihydro-1H-[1,6]naphthyridin-2-one;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]naphthyridine;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-3-oxa-1,6-diaza-naphthalene;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-3-oxa-1,6-diaza-naphthalene;
             1-(1-ethyl-propyl)-3,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-3,4-dihydro-1H-3-oxa-[1,6]-naphthyridin-2-one;
             1-(1-ethyl-propyl)-3,3,6-trimethyl-4-(2,4,6-trimethyl-phenoxy)-2,3-dihydro-1H-pyrrolo[3,2-c]pyridine;
35
             7-(1-ethyl-propoxy)-5-methyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidine;
             [2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine;
             (1-ethyl-propyl)-[5-methyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]amine;
             7-(1-ethyl-propoxy)-2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidine;
40
             [2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-ethyl-propyl-amine;
             [6-bromo-5-bromomethyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-(1-ethyl-propyl)-
             (1-ethyl-propyl)-[5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-amine;
             [6-bromo-5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-(1-ethyl-propyl)-methyl-
45
             7-(1-ethyl-propoxy)-5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridine;
             4-(1-ethyl-propoxy)-2,5-dimethyl-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyr imidine;
             (±)-2,5-dimethyl-4-(tetrahydro-furan-3-yloxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo-[3,2-d]pyrimidine;
             2,5-dimethyl-4-(S)-(tetrahydro-furan-3-yloxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo-[3,2-d]pyrimidine;
             2,5-dimethyl-4-(1-propyl-butoxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyrimidine;
50
             4-sec-butylsulfanyl-2,5-dimethyl-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyrimidine;
             4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido [2,3-d]pyrimidin-7-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b] pyrazin-2-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido [2,3-b]pyrazine;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-quinoline;
55
             5-(1-ethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,2-dihydro-3-oxa-1,8-diazanaphthalen-4-one;
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
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(1-ethyl-propyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-quinolin-4-yl]-amine;

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4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-
             4-(butyl-ethyl-amino)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
5
             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
             (butyl-ethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-amine;
             (propyl-ethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-
             amine:
             (diethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido [2,3-d]pyrimidin-4-yl]-amine;
             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-
10
             (1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidine;
             4-(butyl-ethyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido [2,3-d]pyrimidin-7-one;
             (butyl-ethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
15
             (propyl-ethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (diethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (1-ethyl-propyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidine;
20
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-bromo-phenyl)-3,4-dihydro- 1H-pyrido [2,3-b]pyrazin-2-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-bromo-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-quinoline;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-bromo-phenyl)-1,4-dihydro-2H- 3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-bromo-phenyl)-1,2-dihydro-3-oxa-1,
                                                                                                     8-diaza-naphthalen-4-
25
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,6-dimethyl-4-bromo-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-quinolin-4-yl]-amine;
             4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,6-dimethyl-4-chloro-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-chloro-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
30
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-chloro-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-chloro-phenyl)-quinoline;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-chloro-phenyl)-1,4-dihydro- 2H-3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-chloro-phenyl)-1,2-dihydro-3-
                                                                                               oxa-1.8-diaza-naphthalen-4-
35
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,6-dimethyl-4-chloro-phenyl)-1,2,3,4- tetrahydro-pyrido[2,3-b]pyrazine;
             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-chloro-phenyl)-quinolin-4-yl]-amine;
             8-(1-hydroxymethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-(1-hydroxymethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4- dihydro-1H-pyrido[2,3-b]pyrazin-2-
40
             8-(1-ethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-diethylamino-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]\ pyrazin-2-one;
             8-(ethyl-propyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido [2,3-b]pyrazin-2-one;
             8-(1-hydroxymethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
45
             8-(1-hydroxymethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyra-
             zine:
             8-(1-ethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
              8-diethylamino-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido [2,3-b]pyrazine;
              8-(ethyl-propyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
50
             8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
              4-(1-hydroxymethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-quinoline;
              4-(1-hydroxymethyl-propylamino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
              4-(1-ethyl-propylamino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
              4-diethylamino-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
55
              4-(ethyl-propyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
              4-(butyl-ethyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
             5-(1-hydroxymethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphtha-
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lene:
             5-(1-hydroxymethyl-propylamino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naph-
            thalene:
            5-(1-ethyl-propylamino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
            5-diethylamino-5-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
            5-(ethyl-propyl-amino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
            8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
            4-(2,4-dichlorophenyl)-5-methyl-2-[N-(1-(methoxymethyl)-1-(naphth-2-yl)methyl)-N-pr opylamino]thiazole;
            oxalate of 4-(2,4-dichlorophenyl)-5-methyl-2-[N-(6-methoxyisoquinol-5-yl)-N-propylamino]thiazole;
            oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methylisoquinol-5-yl)-N-propylamino]thiazole;
10
            4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-methoxycarbonylmethylindol-5-yl)-N-p ropylaminolthiazole;
            oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methoxy isoquinol-5-yl)-N-propylamino]thiazole;
            oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-chloroisoquinol-5-yl)-N-propylamino]thiazole;
            oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methoxyisoquinol-5-yl)-N-propylamino]thiazole;
            4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-1-methoxynaphth-2-yl)-N-propylamino]thiazole;
15
            oxalate of 4-(2-chloro-4-trifluoromethylphenyl)-5-methyl-2-[N-6-methoxyisoquinol-5-yl)-N-propylamino]thia-
            zole:
            chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(2-ethoxynaphth-1-yl)-N-propylamino]thiazole;
            chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2[N-(2,3-dimethylnaphth-1-yl)-N-propylamino]thiazole;
                                     4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-bromo-2-methoxynaphth-1-yl)-N-pro-
20
            chlorhydrate
            pylamino)thiazole;
            chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(2,6-dimethylnaphth-1-yl)-N-propylamino]thia-
            zole:
            chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-(methoxymethyl)-1-(naphth-2-yl)methyl)-N-
            propylamino]thiazole;
25
            chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-(cyclopropyl)-1 -(naphth-2-yl)methyl)-N-pro-
            pylamino)thiazole;
            3-(2,4-dichlorophenyl)-5-methyl-7(N-propyl-N-cyclopropanemethylamino)-pyrazolo[2,3-a]pyrimidine;
            3-(2,4-dichlorophenyl)-5-methyl-7-(N-alkyl-N-cyclopropanemethylamino)-pyrazolo[2,3-a]pyrimidine;
            2-methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N,N-diallylamino) -pyrazolo[2,3-a]pyrimidine;
30
            2-methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N-butyl-N-cyclopropanemethyl-amino)pyrazolo[2,3-a]pyrimi-
            dine:
            2_methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N-propyl-N-cyclopopanemethyl-amino) pyrazolo[2,3-a]pyri-
            midine:
            2-methyl-3-(4-chlorophenyl)-5-methyl-7-(N,N-dipropylamino)-pyrazolo[2,3-a) pyrimidine;
35
            3-[6-(dimethylamino)-3-pyridinyl-2,5-dimethyl-N,N-dipropylpyrazolo[2,3-a]pyrimidin-7-amine;
            3-[6-(dimethylamino)-4-methyl-3-pyridinyl]-2,5-dimethyl-N,N-dipropyl-pyrazolo[2,3-a]p yrimidine-7-amine;
            3-(2,4-dimethoxyphenyl)-2,5-dimethyl-7-(N-propyl-N-methyloxyethylamino)-pyrazolo (2,3-a)pyrimidine;
            7-(N-diethylamino)-2,5-dimethyl-3-(2-methyl-4-methoxyphenyl-[1,5-a]-pyrazolopyrimidine;
            7-(N-(3-cyanopropyl)-N-propylamino-2,5,dimethyl-3-(2,4-dimethylphenyl)-[1,5-a]-pyrazolopyrimidine;
40
            [3,6-dimethyl-2-(2,4,6-trimethyl-phenoxy)-pyridin-4-yl]-(1-ethyl-propyl)-amine;
            [2-(4-chloro-2,6-dimethyl-phenoxy)-3,6-dimethyl-pyridin-4-yl]-(1-ethyl-propyl)-amine;
            cyclopropylmethyl-[3-(2,4-dimethyl-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine;
            cyclopropylmethyl-[3-(2-methyl-4-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine;
            cyclopropylmethyl-[3-(2,4-di-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine;
45
            [3-(2-methyl-4-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-di-propyl-amine;
            [2,5-dimethyl-3-(2,4-dimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine;
            [2,5-dimethyl-3-(2,4-dichloro-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine; and
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[0014] Methods for making the CRF antagonists described above are disclosed in the above-listed patents and published patent applications incorporated by reference herein.

4-(1-Ethyl-propylamino)-6-methyl-2-(2,4,6-trimethyl-phenoxy)-nicotinic acid methyl ester.

[0015] In an alternative embodiment, the present invention relates to a pharmaceutical composition for the treatment of a condition selected from the group consisting of:

a) abnormal circadian rhythm; and

b) depression.

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The composition comprises an amount of a CRF antagonist effective to treat the condition in combination with a pharmaceutically acceptable carrier. Where the condition is depression, it is also treated with a second compound for treating depression, the second compound having an onset of action that is delayed with respect to that of the CRF antagonist.

[0016] In another aspect, the present invention relates to a method for treating or preventing a cardiovascular disease that involves administering a CRF antagonist, or a pharmaceutically acceptable salt, isomer, or prodrug thereof, in combination with a second, non-CRF antagonist compound for treating the disease. The second compound for treating the disease can be, for example, adenosine, alteplase, amiodarone, anagrelide, ardeparin, argatroban, atenolol, atorvastatin, benazepril, captopril, carvedilol, cerivastatin, clonidine, clopidrogrel, dalteparin, danaparoid, diltiazem, enalapril, fluvastatin, fosinopril, gemfibrozil, hydrochlorothiazide, irbesartan, lepirudin, lisinopril, lovastatin, oprelvekin, pravastatin, prazosin, quinapril, ramipril, saruplase, simvastatin, terazosin, valsartan, or verapamil.

[0017] In another aspect, the invention relates to treatment of migraine or non-migraine headache by administration of a CRF antagonist in combination with a non-CRF antagonist compound that treats such condition. For example, it is possible to administer a CRF antagonist with non-steroidal anti-inflammatory drugs (NSAIDs), such as aspirin, acetaminophen, ibuprofen, with anti-emetics, with preparations containing ergotamine such as dihydroergotamine, or with agents that modulate serotonin receptors (including those that modulate the 5HT_{1B}, 5HT_{1D}, 5HT_{1F} and 5HT_{2B} receptors) or that mimic the effects of serotonin. Particular agents include sumatriptan, naratriptan, zolmitriptan, rizatriptan, eletriptan, and almotriptan. Administration of these compounds is carried out using dosages and formulations that are well-known.

[0018] In another aspect, the invention relates to treatment of emesis using a CRF antagonist in combination with a non-CRF antagonist compound for treating emesis. Examples of such non-CRF antagonist compounds for treating emesis include tachykinin antagonists, including Nk1 antagonists, (such as compounds described in WO 99/24423, EP 867182, EP 980324, and WO 99/24423) and 5HT₃ antagonists (such as metoclopramide, granisetron, dolasetron, ondansetron and tropisetron).

[0019] The emesis that is treated can be of any type, including emesis induced by pregnancy, vestibular disorder, post-operative sickness, gastrointestinal obstruction, reduced gastrointestinal motility, visceral pain, migraine, change in intercranial pressure, chemotherapy, radiation, toxins, and opioid analgesics.

[0020] The invention also encompasses combined pharmaceutical compositions containing the CRF antagonist, a non-CRF antagonist as defined above, and below, and a pharmaceutically acceptable carrier. Examples of such compositions include, without limitation:

- a composition for treating abnormal circadian rhythm that contains effective amounts of a combination of a CRF antagonist and a non-CRF antagonist compound useful for treating abnormal circadian rhythm;
- a composition for treating depression that contains effective amounts of a combination of a CRF antagonist and a second compound for treating depression that has a delayed effect;

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- a composition for treating or preventing a cardiovascular disease that contains effective amounts of a CRF antagonist in combination with a second, non-CRF antagonist compound for treating the disease;
- 4) a composition for treating migraine or non-migraine headache that contains effective amounts of a CRF antagonist in combination with a non-CRF antagonist compound that treats such condition; and
- 40 5) a composition for treating emesis that contains a CRF antagonist in combination with a non-CRF antagonist compound for treating emesis.

[0021] Combination treatments according to the invention can be administered as part of the same pharmaceutical composition, or the active agents can be administered separately as part of an appropriate dose regimen designed to obtain the benefits of the combination therapy.

[0022] Acid addition salts of the CRF antagonists and other agents employed in the invention can be prepared in a conventional manner by treating a solution or suspension of the corresponding free base with one chemical equivalent of a pharmaceutically acceptable acid. Conventional concentration or crystallization techniques can be employed to isolate the salts. Illustrative of suitable acids are acetic, lactic, succinic, maleic, tartaric, citric, gluconic, ascorbic, benzoic, cinnamic, fumaric, sulfuric, phosphoric, hydrochloric, hydrobromic, hydroiodic, sulfamic, sulfonic acids such as methanesulfonic, benzene sulfonic, p-toluenesulfonic, and related acids.

[0023] The CRF antagonists and their pharmaceutically acceptable salts, and any second pharmaceutically active compounds, may be administered alone or in combination with pharmaceutically acceptable carriers, in either single or multiple doses. Suitable pharmaceutical carriers include inert solid diluents or fillers, sterile aqueous solutions, oils (e.g., peanut oil, sesame oil) and various organic solvents. The pharmaceutical compositions formed by combining the CRF antagonists and pharmaceutically acceptable carriers can be readily administered in a variety of dosage forms such as tablets, powders, lozenges, emulsions, oil soft gels, syrups, injectable solutions and the like. These pharmaceutical compositions can, if desired, contain additional ingredients such as flavorings, binders, excipients and the like.

Thus, for purposes of oral administration, tablets containing various excipients such as sodium citrate, calcium carbonate and calcium phosphate may be employed along with various disintegrants such as starch, methylcellulose, alginic acid and certain complex silicates, together with binding agents such as polyvinylpyrrolidone, sucrose, gelatin and acacia. Additionally, lubricating agents such as magnesium stearate, sodium lauryl sulfate and talc are often useful for tabletting purposes. Solid compositions of a similar type may also be employed as fillers in soft and hard filled gelatin capsules. Preferred materials for this include lactose or milk sugar and high molecular weight polyethylene glycols. When aqueous suspensions or elixirs are desired for oral administration, the essential active ingredient therein may be combined with various sweetening or flavoring agents, coloring matter or dyes and, if desired, emulsifying or suspending agents, together with diluents such as water, ethanol, propylene glycol, glycerin and combinations thereof.

[0024] For parenteral administration, solutions containing the CRF antagonist or a pharmaceutically acceptable salt thereof in sesame or peanut oil, aqueous propylene glycol, or in sterile aqueous solution may be employed. Such aqueous solutions should be suitably buffered if necessary and the liquid diluent first rendered isotonic with sufficient saline or glucose. These particular aqueous solutions are especially suitable for intravenous, intramuscular, subcutaneous and intraperitoneal administration. The sterile aqueous media employed are all readily available by standard techniques known to those skilled in the art.

[0025] The effective dosages for the CRF antagonists employed in the methods of this invention will depend on the intended route of administration and factors such as the age and weight of the patient, as generally known to a physician. The dosages will also depend on the particular condition to be treated and will generally range from about 0.1 to about 300 mg/kg body weight of the patient per day, with administration carried out in single or divided dosages.

[0026] Methods that may be used to determine the CRF antagonist activity of the compounds employed to practice the invention are described e.g., in Endocrinology, 116, 1653-1659 (1985) and Peptides, 10, 179-188 (1985).

[0027] Methods that can be used to determine the CRF binding protein inhibiting activity of compounds employed to practice the invention are described in Brain Research, (1997), 745(1,2), 248-256. The binding activities of the CRF antagonists employed generally range from about 0.5 nanomolar to about 32 micromolar.

Claims

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- A method of treating a condition comprising administering a corticotropin releasing factor (CRF) antagonist in an amount effective to treat said condition, wherein said condition is selected from the group consisting of:
 - a) disorders that can be treated by altering circadian rhythm; and
 - b) depression, further wherein a second compound for treating depression is administered, said second compound for treating depression having an onset of action that is delayed with respect to that of said CRF antagonist
- 2. The method of claim 1 wherein said condition is selected from the group consisting of time zone change syndrome, seasonal affective disorder, irregular sleep-wake pattern, delayed sleep phase syndrome, advanced sleep phase syndrome, non-24 hour sleep wake disorder, light-induced clock resetting, REM sleep disorder, hypersomnia, parasomnia, narcolepsy, nocturnal enuresis, restless legs syndrome, sleep apnea, dysthymia and abnormal circadian rhythm associated with chronic administration and withdrawal of antidepressant agents.
- 3. The method of claim 1 wherein said condition is depression, and wherein said second compound for treating depression is selected from the group consisting of selective serotonin reuptake inhibitors, tricyclic antidepressants, norepinephrine reuptake inhibitors, noradrenaline reuptake inhibitors, lithium, α2-adrenoreceptor agonists, 5HT_{1A} inhibitors, and monoamine oxidase type A inhibitors.
- The method of claim 1 wherein said CRF antagonist is selected from the group consisting of 4-(1-ethyl-propoxy)-3,6-dimethyl-2-(2,4,6-trimethylphenoxy)-pyridine;
 - butyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-6,7-dihydro-5H-pyrrolo[2,3-d]pyrimidin-4-yl]-ethyl-amino;
 - 4-(butyl-ethylamino)-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-5,7-dihydro-pyrrolo[2,3-d]pyrimidin-6-one;
 - 4-(1-ethylpropoxy)-2,5-dimethyl-6-(2,4,6-trimethylphenoxy)-pyrimidine;
 - N-butyl-N-ethyl-2,5-dimethyl-NN-(2,4,6-trimethylphenyl)-pyrimidine-4,6-diamine;
 - [4-(1-ethyl-propoxy)-3,6-dimethyl-pyridin-2-yl]-(2,4,6-trimethylphenyl)-amine;
 - 6-(ethyl-propyl-amino)-2,7-dimethyl-9-(2,4,6-trimethylphenyl)-7,9-dihydro-purin-8-one;
 - 3-{(4-methyl-benzyl)-[3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amino}-propan-1-ol;
 - diethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;

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2-{butyl-{6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amino}-ethanol;
             dibutyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             butyl-ethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             butyl-ethyl-[6-methyl-3-methylsulfonyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
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             butyl-cyclopropylmethyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-
             yl]-amine;
             di-1-propyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             diallyl-[6-methyl-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             butyl-ethyl-[6-chloro-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
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             butyl-ethyl-[6-methoxy-3-methylsulfanyl-1-(2,4,6-trichlorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             propyl-ethyl-[3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-amine;
             4-(1-ethyl-propyl)-6-methyl-3-methylsulfanyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-d]pyrimidine;
             n-butyl-ethyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
             di-n-propyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
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             ethyl-n-propyl-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
             diethyl-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
             n-butyl-ethyl-[2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
             2-{N-n-butyl-N-[2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino}-ethanol;
             4-(1-ethyl-propyl)-2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidine;
             n-butyl-ethyl-[2,5-dimethyl-7-(2,4-dimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine;
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             2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidyl-4-yl]-(1-ethyl-propyl)amine;
             butyl-[3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridin-4-yl]-ethylamine;
             [3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4,b]pyridin-4-yl]-(1-methoxymethylpropyl)-amine;
             4-(1-methoxymethylpropoxy)-3,6-dimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridine;
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             (1-ethylpropyl)-[3,5,6-trimethyl-1-(2,4,6-trimethylphenyl)-1H-pyrazolo[3,4-b]pyridin-4-yl]-amine;
             4-(1-ethylpropoxy)-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-b]pyridine;
             4-(1-ethylpropoxy)-2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-b]pyridine;
             4-(1-ethylpropoxy)-2,5-dimethyl-7-(2,6-dimethyl-4-bromophenyl)-7H-pyrrolo[2,3-b]pyridine;
             2,5,6-trimethyl-7-(1-propylbutyl)-4-(2,4,6-trimethylphenoxy)-7H-pyrrolo[2,3-d]pyrimidine;
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             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenylamino)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             9-(1-ethylpropyl)-2-methyl-6-(2,4,6-trimethylphenylamino)-7,9-dihydro-purin-8-one;
             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenoxy)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             1-(1-ethylpropyl)-6-methyl-4-(2,4,6-trimethylphenoxy)-1H-imidazo[4,5-c]pyridine;
             1-(1-ethylpropyl)-3,6-dimethyl-4-(2,4,6-trimethylphenoxy)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
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             1-(1-ethylpropyl)-3,6-dimethyl-4-(2,4,6-trimethylphenylamino)-1,3-dihydro-imidazo[4,5-c]pyridin-2-one;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-pyrido[3,4-b]pyrazin-3-one;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-pyrido[3,4-b]pyrazin-3-one;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-pyrido[3,4-b]pyrazine;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-pyrido[3,4-b]pyrazine;
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             1-(1-ethyl-propyl)-7-methyl-2-oxo-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]na phthyridine-3-carbox-
             ylic acid methyl ester;
             1-(1-ethyl-propyl)-7-methyl-2-oxo-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]na phthyridine-3-carbox-
             ylic acid isopropyl ester;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-3,4-dihydro-1H-[1,6]naphthyridin-2-one;
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             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,2,3,4-tetrahydro-[1,6]naphthyridine;
             1-(1-ethyl-propyl)-7-methyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-3-oxa-1,6-diaza-naphthalene;
             1-(1-ethyl-propyl)-4,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-1,4-dihydro-2H-3-oxa-1,6-diaza-naphthalene;
             1-(1-ethyl-propyl)-3,7-dimethyl-5-(2,4,6-trimethyl-phenoxy)-3,4-dihydro-1H-3-oxa-[1,6]-naphthyridin-2-one;
             1-(1-ethyl-propyl)-3,3,6-trimethyl-4-(2,4,6-trimethyl-phenoxy)-2,3-dihydro-1H-pyrrolo[3,2-c]pyridine;
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             7-(1-ethyl-propoxy)-5-methyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidine;
             [2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine;
             (1-ethyl-propyl)-[5-methyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-amine;
             7-(1-ethyl-propoxy)-2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidine;
             [2,5-dimethyl-3-(2,4,6-trimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-ethyl-propyl-amine;
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             [6-bromo-5-bromomethyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-(1-ethyl-propyl)-
             (1-ethyl-propyl)-[5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-amine;
             [6-bromo-5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridin-7-yl]-(1-ethyl-propyl)-methyl-
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amine;
             7-(1-ethyl-propoxy)-5-methyl-3-(2,4,6-trimethyl-phenyl)-3H-[1,2,3]triazolo[4,5-b]pyridine;
             4-(1-ethyl-propoxy)-2,5-dimethyl-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyr imidine:
             (±)-2,5-dimethyl-4-(tetrahydro-furan-3-yloxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo-[3,2-d]pyrimidine;
             2,5-dimethyl-4-(S)-(tetrahydro-furan-3-yloxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo-[3,2-d]pyrimidine;
             2,5-dimethyl-4-(1-propyl-butoxy)-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyrimidine;
             4-sec-butylsulfanyl-2,5-dimethyl-7-(2,4,6-trimethyl-phenyl)-5H-pyrrolo[3,2-d]pyrimidine;
             4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido [2,3-d]pyrimidin-7-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b] pyrazin-2-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido [2,3-b]pyrazine;
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             4-(1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-quinoline;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,2-dihydro-3-oxa-1,8-diaza-naphthalen-4-one;
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             (1-ethyl-propyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-quinolin-4-yl]-amine;
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             4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-
             one;
             4-(butyl-ethyl-amino)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
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             (butyl-ethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-amine;
             (propyl-ethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-
             (diethyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido [2,3-d]pyrimidin-4-yl]-amine;
             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidin-4-yl]-
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             amine;
             (1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d]pyrimidine;
             4-(butyl-ethyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-one;
             4-(1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,8-dihydro-6H-pyrido [2,3-d]pyrimidin-7-one;
             (butyl-ethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (propyl-ethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
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             (diethyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (1-ethyl-propyl)-[2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidin-4-yl]-amine;
             (1-ethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-5,6,7,8-tetrahydro-pyrido[2,3-d] pyrimidine;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-bromo-phenyl)-3,4-dihydro- 1H-pyrido [2,3-b]pyrazin-2-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-bromo-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
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             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-quinoline;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-bromo-phenyl)-1,4-dihydro-2H- 3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-bromo-phenyl)-1,2-dihydro-3-oxa-1,
                                                                                                     8-diaza-naphthalen-4-
             one:
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,6-dimethyl-4-bromo-phenyl)-1,2,3,4- tetrahydro-pyrido[2,3-b]pyrazine;
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             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-bromo-phenyl)-quinolin-4-yl]-amine;
             4-(butyl-ethyl-amino)-2,6-dimethyl-8-(2,6-dimethyl-4-chloro-phenyl)-5,8-dihydro-6H-pyrido[2,3-d]pyrimidin-7-
             one:
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-chloro-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-(1-ethyl-propoxy)-6-methyl-4-(2,6-dimethyl-4-chloro-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
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             4-(1-ethyl-propoxy)-2-methyl-8-(2,6-dimethyl-4-chloro-phenyl)-quinoline;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-chloro-phenyl)-1,4-dihydro- 2H-3-oxa-1,8-diaza-naphthalene;
             5-(1-ethyl-propoxy)-7-methyl-1-(2,6-dimethyl-4-chloro-phenyl)-1,2-dihydro-3-
                                                                                              oxa-1.8-diaza-naphthalen-4-
             one;
             8-(1-ethyl-propoxy)-1,6-dimethyl-4-(2,6-dimethyl-4-chloro-phenyl)-1,2,3,4- tetrahydro-pyrido[2,3-b]pyrazine;
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             (1-ethyl-propyl)-[2-methyl-8-(2,6-dimethyl-4-chloro-phenyl)-quinolin-4-yl]-amine;
             8-(1-hydroxymethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-(1-hydroxymethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4- dihydro-1H-pyrido[2,3-b]pyrazin-2-
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             8-(1-ethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one;
             8-diethylamino-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b] pyrazin-2-one;
             8-(ethyl-propyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido[2,3-b]pyrazin-2-one
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8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-3,4-dihydro-1H-pyrido [2,3-b]pyrazin-2-one;

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8-(1-hydroxymethyl-propoxy)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             8-(1-hydroxymethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyra-
             8-(1-ethyl-propylamino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
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             8-diethylamino-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido [2,3-b]pyrazine;
             8-(ethyl-propyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,2,3,4-tetrahydro-pyrido[2,3-b]pyrazine;
             4-(1-hydroxymethyl-propoxy)-2-methyl-8-(2,4,6-trimethyl-phenyl)-quinoline;
             4-(1-hydroxymethyl-propylamino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
             4-(1-ethyl-propylamino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
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             4-diethylamino-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
             4-(ethyl-propyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
             4-(butyl-ethyl-amino)-2-methyl-8-(2,4,6-trimethyl-phenyl)- quinoline;
             5-(1-hydroxymethyl-propoxy)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphtha-
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             5-(1-hydroxymethyl-propylamino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naph-
             thalene:
             5-(1-ethyl-propylamino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
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             5-diethylamino-5-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
             5-(ethyl-propyl-amino)-7-methyl-1-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
             8-(butyl-ethyl-amino)-6-methyl-4-(2,4,6-trimethyl-phenyl)-1,4-dihydro-2H-3-oxa-1,8-diaza-naphthalene;
             4-(2,4-dichlorophenyl)-5-methyl-2-[N-(1-(methoxymethyl)-1-(naphth-2-yl)methyl)-N-pr opylamino]thiazole;
             oxalate of 4-(2,4-dichlorophenyl)-5-methyl-2-[N-(6-methoxyisoquinol-5-yl)-N-propylamino]thiazole;
             oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methylisoquinol-5-yl)-N-propylamino]thiazole;
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             4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-methoxycarbonylmethylindol-5-yl)-N-p ropylamino]thiazole;
             oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methoxy isoquinol-5-yl)-N-propylamino]thiazole;
             oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-chloroisoquinol-5-yl)-N-propylamino]thiazole;
             oxalate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-methoxyisoquinol-5-yl)-N-propylamino]thiazole;
             4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-1-methoxynaphth-2-yl)-N-propylamino]thiazole;
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             oxalate of 4-(2-chloro-4-trifluoromethylphenyl)-5-methyl-2-[N-6-methoxyisoquinol-5-yl)-N-propylamino]thia-
             zole:
             chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(2-ethoxynaphth-1-yl)-N-propylamino]thiazole;
             chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2[N-(2,3-dimethylnaphth-1-yl)-N-propylamino]thiazole;
                                     4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(6-bromo-2-methoxynaphth-1-yl)-N-pro-
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             chlorhydrate
                              de
             pylamino]thiazole;
             chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(2,6-dimethylnaphth-1-yl)-N-propylamino]thia-
             zole:
             chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-(methoxymethyl)-1-(naphth-2-yl)methyl)-N-
             propylamino]thiazole;
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             chlorhydrate of 4-(2-chloro-4-methoxyphenyl)-5-methyl-2-[N-(1-(cyclopropyl)-1 -(naphth-2-yl)methyl)-N-pro-
             pylamino]thiazole;
             3-(2,4-dichlorophenyl)-5-methyl-7(N-propyl-N-cyclopropanemethylamino)-pyrazolo[2,3-a]pyrimidine;
             3-(2,4-dichlorophenyl)-5-methyl-7-(N-allyl-N-cyclopropanemethylamino)-pyrazolo[2,3-a]pyrimidine;
             2-methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N,N-diallylamino)-pyrazolo[2,3-a]pyrimidine;
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             2-methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N-butyl-N-cyclopropanemethylamino)pyrazolo[2,3-a]pyrimi-
             dine; 2_methylthio-3-(2,4-dichlorophenyl)-5-methyl-7-(N-propyl-N-cyclopopanemethyl-amino) pyrazolo[2,3-
             alpyrimidine;
             2-methyl-3-(4-chlorophenyl)-5-methyl-7-(N,N-dipropylamino)-pyrazolo[2,3-a) pyrimidine;
             3-[6-(dimethylamino)-3-pyridinyl-2,5-dimethyl-N,N-dipropylpyrazolo[2,3-a]pyrimidin-7-amine;
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             3-[6-(dimethylamino)-4-methyl-3-pyridinyl]-2,5-dimethyl-N,N-dipropyl-pyrazolo[2,3-a]p yrimidine-7-amine;
             3-(2,4-dimethoxyphenyl)-2,5-dimethyl-7-(N-propyl-N-methyloxyethylamino)-pyrazolo (2,3-a)pyrimidine;
             7-(N-diethylamino)-2,5-dimethyl-3-(2-methyl-4-methoxyphenyl-[1,5-a]-pyrazolopyrimidine;
             7-(N-(3-cyanopropyl)-N-propylamino-2,5,dimethyl-3-(2,4-dimethylphenyl)-[1,5-a]-pyrazolopyrimidine;
             [3,6-dimethyl-2-(2,4,6-trimethyl-phenoxy)-pyridin-4-yl]-(1-ethyl-propyl)-amine;
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             [2-(4-chloro-2,6-dimethyl-phenoxy)-3,6-dimethyl-pyridin-4-yl]-(1-ethyl-propyl)-amine;
             cyclopropylmethyl-[3-(2,4-dimethyl-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine;
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cyclopropylmethyl-[3-(2-methyl-4-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine;

cyclopropylmethyl-[3-(2,4-di-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-propyl-amine; [3-(2-methyl-4-chloro-phenyl)-2,5-dimethyl-pyrazolo[1,5-a]pyrimidin-7-yl]-di-propyl-amine; [2,5-dimethyl-3-(2,4-dimethyl-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine; [2,5-dimethyl-3-(2,4-dichloro-phenyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-(1-ethyl-propyl)-amine; and 4-(1-Ethyl-propylamino)-6-methyl-2-(2,4,6-trimethyl-phenoxy)-nicotinic acid methyl ester.

- 5. A pharmaceutical composition for the treatment of a condition selected from the group consisting of:
 - a) abnormal circadian rhythm; and
- 10 b) depression;

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comprising an amount of a CRF antagonist effective to treat said condition in combination with a pharmaceutically acceptable carrier,

wherein where said condition is depression, said depression is treated with a second compound for treating depression, said second compound for treating depression having an onset of action that is delayed with respect to that of said CRF antagonist.

- 6. The pharmaceutical composition of claim 5 for treatment of depression comprising an amount of a CRF antagonist effective to treat said depression, and said second compound for treating depression having an onset of action that is delayed with respect to that of said CRF antagonist.
- 7. A method for treating or preventing a cardiovascular disease comprising administering a CRF antagonist, or a pharmaceutically acceptable salt, isomer, or prodrug thereof, in combination with a non-CRF antagonist compound for treating said disease.
- 8. A method for treating migraine or non-migraine headache comprising administration of a CRF antagonist in combination with a non-CRF antagonist compound that treats said headache.
- 9. The method of claim 8 wherein said non-CRF antagonist compound is selected from the group consisting of nonsteroidal anti-inflammatory drugs, anti-emetics, ergotamine, and agents that modulate serotonin receptors or mimic 30 the effects of serotonin.
 - 10. A method for treating emesis comprising administration of a CRF antagonist in combination with a non-CRF antagonist compound for treating emesis.

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